Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429B

Section 1. Identification

Product identifier	Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for Number G9429B	ILM, 96 Reactions, Part
Part no. (chomical kit)	G9429B	
Part no. (chemical kit)		0.0450
Part no.	Avida Methyl Reagent Box 2, 96 5282-0148/528	<u>2-0150</u>
	Reactions/Avida Methyl and Duo Reagent	
	Box 3, 96 Reactions	
	Nuclease-Free Water 5271-0134	
	Avida Methyl Reagent Box 1, 96 5282-0146	
	Reactions End Prep Buffer 5271-0121	
	End Prep Buffer 5271-0121 End Prep Enzyme 5271-0122	
	Ligation Buffer 5271-0123	
	Ligation Enzyme 5271-0123	
	Adapter for ILM 5271-0124	
	Hyb Blocker 5271-0126	
	Hyb Buffer 5271-0127	
	Hyb Enhancer 5271-0128	
	Soft Conversion Reagent A 5271-0137	
	2X Methyl Amplification Mastermix 5271-0138	
	Avida Methyl Reagent Box 2, 96 5282-0148	
	Reactions	
	Library Wash Buffer 5271-0130	
	Hyb Wash Buffer 1 5271-0131	
	Hyb Wash Buffer 2 5271-0132	
	Avida Methyl and Duo Reagent Box 3, 96 5282-0150	
	Reactions	
	Soft Conversion Reagent B 5271-0113	
	Soft Conversion Binding Beads 5271-0141	
	5X Soft Conversion Wash Buffer 5271-0142	
	Soft Conversion Elution Buffer 5271-0143	
	Soft Conversion Repair Solution 5271-0144	
	Avida Beads Box, 96 Reactions 5282-0144	
	Library Binding Beads 5271-0135	
	Capture Beads 5271-0136	
	Avida Index Primer Pairs 97 -192 for ILM 5280-0056	
	Avida Index Primer Pairs 97-192 for ILM 5274-0080	
Delevent identified uses of th	whateway are minimum and upon advised arginat	
	ubstance or mixture and uses advised against	
Identified uses	Analytical reagent. For research use only.	
	Nuclease-Free Water 5.76 ml (96 re	ections)
	End Prep Buffer 0.877 ml (96 l	reactions)
	End Prep Enzyme 0.351 ml (96 i	reactions)
	Ligation Buffer 2.960 ml (96 l	reactions)
	Ligation Enzyme 0.694 ml (96 r	
	Adapter for ILM 0.588 ml (96 I	reactions)
	Hyb Blocker 0.349 ml (96 i	
	Hyb Buffer 5.524 ml (96 i	
	Hyb Enhancer 0.988 ml (96 i	
	Soft Conversion Reagent A 0.387 ml (96 l	,
	2X Methyl Amplification Mastermix 2.940 ml (96 l	
	Library Wash Buffer 21.12 ml (96 l	
	Hyb Wash Buffer 1 31.680 ml (96	
	Hyb Wash Buffer 2 18.24 ml (96 m	reactions)

Section 1. Identification

	Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM	6 x 0.750 ml 17.280 ml (96 reactions) 8 ml (96 reactions) 1.728 ml (96 reactions) 0.588 ml (96 reactions) 10.083 ml (96 reactions) 0.944 ml (96 reactions) 96 x 0.005 ml
Uses advised against	: Not for use in diagnostic procedures.	
Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402	
Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994	

Section 2. Hazard(s) identification

Classification of the substar	<u>nce or mixture</u>			
End Prep Buffer H412	LONG-TERM	I (CHRONIC) AQUATIC H	AZARD - Category 3	
End Prep Enzyme H320	SERIOUS E	/E DAMAGE/EYE IRRITAT	ΓΙΟΝ - Category 2B	
Ligation Enzyme H320	SERIOUS E	/E DAMAGE/EYE IRRITAT	ΓΙΟΝ - Category 2B	
Hyb Buffer H302 H315 H370 H412	SKIN CORR	ICITY (oral) - Category 4 OSION/IRRITATION - Cate ARGET ORGAN TOXICITY 1 (CHRONIC) AQUATIC H	Y - SINGLE EXPOSUR	RE - Category 1
Hyb Enhancer H351 H360 H373	REPRODUC	ENICITY - Category 2 TIVE TOXICITY - Category ARGET ORGAN TOXICITY		SURE - Category 2
Soft Conversion Reagent A H227 H319 H360	SERIOUS E	E LIQUIDS - Category 4 /E DAMAGE/EYE IRRITAT TIVE TOXICITY - Category		
Soft Conversion Reagent B H319	SERIOUS E	/E DAMAGE/EYE IRRITAT	ΓΙΟΝ - Category 2A	
Soft Conversion Binding Beads H226 H314 H318 H400 H411	SKIN CORRO SERIOUS EN SHORT-TER	E LIQUIDS - Category 3 DSION/IRRITATION - Cate /E DAMAGE/EYE IRRITAT M (ACUTE) AQUATIC HA 1 (CHRONIC) AQUATIC HA	TION - Category 1 ZARD - Category 1	
Soft Conversion Elution Buffer H314	SKIN CORR	OSION/IRRITATION - Cate	egory 1	
Date of issue/Date of revision	: 08/04/2024	Date of previous issue	: 26/02/2024	Version : 1.1

2/84

Hyb Buffer Percentage of the mixture consisting of ingredit of unknown acute oral toxicity: 1 - 10% Hyb Buffer Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Soft Conversion Reagent B GHS label elements : Hyb Buffer Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Percentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Parcentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Parcentage of the mixture consisting of ingredit of unknown hazards to the aquatic environmen Parcentage of the mixture consisting of ingredit of unknown hazards to the aquatic envinonten Parcentage of the mixture consisting of i	
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Hyb Buffer DANGER	
Hyb Enhancer DANGER Soft Conversion Reagent A DANGER	
2X Methyl Amplification No signal word.	
Mastermix	
Library Wash Buffer No signal word.	
Hyb Wash Buffer 1 No signal word. Hyb Wash Buffer 2 No signal word.	
Soft Conversion Reagent B WARNING	
Soft Conversion Binding DANGER Beads	
5X Soft Conversion Wash No signal word.	
Buffer Soft Conversion Elution DANGER	

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		Buffer Soft Conversion Repair Solution	No signal word.
		Library Binding Beads	No signal word.
		Capture Beads	No signal word.
		Avida Index Primer Pairs 97-192 for ILM	No signal word.
Hazard statements	:	Nuclease-Free Water End Prep Buffer	No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects.
		End Prep Enzyme	H320 - Causes eye irritation.
		Ligation Buffer	No known significant effects or critical hazards.
		Ligation Enzyme	H320 - Causes eye irritation.
		Adapter for ILM Hyb Blocker	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Hyb Buffer	H302 - Harmful if swallowed.
			H315 - Causes skin irritation.
			H370 - Causes damage to organs. (central nervous
			system (CNS))
			H412 - Harmful to aquatic life with long lasting effects.
		Hyb Enhancer	H351 - Suspected of causing cancer.
			H360 - May damage fertility or the unborn child.
			H373 - May cause damage to organs through prolonged or repeated exposure. (blood)
		Soft Conversion Reagent A	H227 - Combustible liquid.
		Cont Conversion Reagent A	H319 - Causes serious eye irritation.
			H360 - May damage fertility or the unborn child.
		2X Methyl Amplification	No known significant effects or critical hazards.
		Mastermix	
		Library Wash Buffer	No known significant effects or critical hazards.
		Hyb Wash Buffer 1	No known significant effects or critical hazards.
		Hyb Wash Buffer 2 Soft Conversion Reagent B	No known significant effects or critical hazards. H319 - Causes serious eye irritation.
		Soft Conversion Binding	H226 - Flammable liquid and vapour.
		Beads	
			H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life.
		5X Soft Conversion Wash Buffer	H411 - Toxic to aquatic life with long lasting effects. No known significant effects or critical hazards.
		Soft Conversion Elution Buffer	H314 - Causes severe skin burns and eye damage.
		Soft Conversion Repair Solution	No known significant effects or critical hazards.
		Library Binding Beads	No known significant effects or critical hazards.
		Capture Beads	No known significant effects or critical hazards.
		Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Precautionary statements		97-192 101 12101	
Prevention	1	Nuclease-Free Water	Not applicable.
		End Prep Buffer	P273 - Avoid release to the environment.
		End Prep Enzyme	Not applicable.
		Ligation Buffer	Not applicable.
		Ligation Enzyme	Not applicable.
		Adapter for ILM	Not applicable.
		Hyb Blocker Hyb Buffer	Not applicable. P280 - Wear protective gloves.
			P273 - Avoid release to the environment.
			P260 - Do not breathe vapour.
			P270 - Do not eat, drink or smoke when using this
			product.
		Hyb Enhancer	P201 - Obtain special instructions before use.
			P280 - Wear protective gloves, protective clothing and eye or face protection.
Date of issue/Date of revision	• <u>08</u>	/04/2024 Date of previous i	issue : 26/02/2024 Version : 1.1 4/84

 P280 - Wear protective gloves, protective do and eye or face protection. P210 - Keep away from haat, hot surfaces, si open flames and other ignition sources. No s Not applicable. Not applicable. N			P260 - Do not breathe vapour.
2X Methyl Amplification Mastermix P210 - Keep away from heat, hot surfaces, si open flames and other ignition sources. No s Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Hyb Wash Buffer 1 Not applicable. Soft Conversion Reagent B Soft Conversion Binding Beads P280 - Wear ept of face protection. Soft Conversion Reagent B Soft Conversion Binding Beads P280 - Wear ept of face protection. SX Soft Conversion Wash Buffer Soft Conversion Reagent Soft Conversion Reagent Hyb Buffer Not applicable. Not ap		Soft Conversion Reagent A	P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, si open finames and other ignition sources. No s Not applicable.2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Soft Conversion Binding BeadsNot applicable.Soft Conversion Binding BeadsP280 - Wear eye or face protection. P280 - Wear protective gloves, protective do and eye or face protection. P210 - Keep away from heat, hot surfaces, si open finames and other ignition sources. No s P280 - Wear protective gloves, protective do and eye or face protection. P210 - Keep away from heat, hot surfaces, si open finames and other ignition sources. No s P273 - Avoid release to the environment. Not applicable.5X Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM Not applicable.Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.Response1. Nuclease-Free Water End Prep Buffer End Prep Buffer Ligation BufferNot applicable. Not applicable. Not applicable. Not applicable.Ligation Buffer Hyb BuckerNot applicable. P305 + P313 - IF NEYES; Rinse car with water for several minutes. Remove cont tenses, if present and easy to do. Continue ri P337 + P313 - If eye inflation persists. Get m advice or attention.Adapter for ILM Hyb BuckerNot applicable. P305 + P313 - IF NEYES; Rinse car with water for several minutes. Remove cont tenses, if present and easy to do. Continue ri P337 + P313 - IF exposed or concerned: Gel advice or attention.2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 2 Hyb Wash			
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P210 - Keep away from heat, hot surfaces, si open flames and other ignition sources. No s P273 - Avoid release to the environment. Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM Not applicable. Not applicable. Hyb Buffer P308 + P313 - If eye irritation persists: Get m advice or attention. Not applicable. Hyb Buffer P308 + P313 - If exposed or concerned: Cal POISON CENTER or doctor. Hyb Enhancer P308 + P313 - If exposed or concerned: Get advice or attention. P305 + P311 - If exposed or concerned: Get advice or attention. P305 + P311 - If exposed or concerned: Get advice or attention. P305 + P311 - If exposed or concerned: Get advice or attention. P305 + P311 - If exposed or concerned: Get advice or attention. P305 + P311 - If exposed or concerned: Get advice or attention. P305 + P311 - If exposed or concerned: Get advice or attention. P305 + P311 - NEYES: Rinse can with water for several minutes. Remove cont lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention. P305		Soft Conversion Binding	P280 - Wear protective gloves, protective clothing
open flames and other ignition sources. No s SX Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Not applicable. Avida Index Primer Pairs Soft Prep Euffer End Prep Buffer End Prep Buffer Polos + P351 + P338 - IF IN EYES: Rinse cat with water for several minutes. Remove conta lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention. Ligation Buffer Not applicable. Ligation Enzyme P305 + P351 + P338 - IF IN EYES: Rinse cat with water for several minutes. Remove conta lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer P308 + P313 - IF exposed or concerned: Cel advice or attention. P308 + P313 - IF exposed or concerned: Get advice or attention. Soft Conversion Reagert A Not applicable. Ybb Wash Buffer 1 Not applicable.		Beads	
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2X Methyl Amplification MastermixNot applicable.Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 2 Soft Conversion Reagent BNot applicable.Soft Conversion Reagent BP305 + P351 + P338 - IF IN EYES: Rinse cat with water for several minutes. Remove conta lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention.Soft Conversion BindingP391 - Collect spillage.			
MastermixLibrary Wash BufferNot applicable.Hyb Wash Buffer 1Not applicable.Hyb Wash Buffer 2Not applicable.Soft Conversion Reagent BP305 + P351 + P338 - IF IN EYES: Rinse cat with water for several minutes. Remove conta lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention.Soft Conversion BindingP391 - Collect spillage.		2X Methyl Amplification	
Hyb Wash Buffer 1 Hyb Wash Buffer 2Not applicable.Soft Conversion Reagent BP305 + P351 + P338 - IF IN EYES: Rinse car with water for several minutes. Remove conta lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention.Soft Conversion BindingP391 - Collect spillage.			••
Hyb Wash Buffer 2 Soft Conversion Reagent BNot applicable.Soft Conversion Reagent BP305 + P351 + P338 - IF IN EYES: Rinse cat with water for several minutes. Remove conta lenses, if present and easy to do. Continue rin P337 + P313 - If eye irritation persists: Get m advice or attention.Soft Conversion BindingP391 - Collect spillage.			
Soft Conversion Reagent B Soft Conversion Reagent B With water for several minutes. Remove conta lenses, if present and easy to do. Continue rin P337 + P313 - If eye irritation persists: Get m advice or attention. Soft Conversion Binding P391 - Collect spillage.			
with water for several minutes. Remove conta lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention. Soft Conversion Binding P391 - Collect spillage.		•	
lenses, if present and easy to do. Continue ri P337 + P313 - If eye irritation persists: Get m advice or attention. Soft Conversion Binding P391 - Collect spillage.		Soft Conversion Reagent B	P305 + P351 + P338 - IF IN EYES: Rinse cautiously
P337 + P313 - If eye irritation persists: Get m advice or attention. Soft Conversion Binding P391 - Collect spillage.			
advice or attention. Soft Conversion Binding P391 - Collect spillage.			
Soft Conversion Binding P391 - Collect spillage.			
		Soft Conversion Rinding	
Boudo			r oor - Oolleot spillage.
		20000	

5/84

	5X Soft Conversion Wash	P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. Not applicable.
	Buffer	
	Soft Conversion Elution Buffer	P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
		P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON
		CENTER or doctor.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs 97-192 for ILM	Not applicable.
Storage	: Nuclease-Free Water	Not applicable.
U U	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion Reagent A	Not applicable.
	2X Methyl Amplification Mastermix	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion Reagent B	Not applicable.
	Soft Conversion Binding	Not applicable.
	Beads 5X Soft Conversion Wash	Not applicable.
	Buffer	
	Soft Conversion Elution Buffer	Not applicable.
	Soft Conversion Repair Solution	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads Avida Index Primer Pairs	Not applicable. Not applicable.
	97-192 for ILM	
Disposal	: Nuclease-Free Water	Not applicable.
	End Prep Buffer	P501 - Dispose of contents and container in
		accordance with all local, regional, national and
		international regulations.
	End Prep Enzyme Ligation Buffer	Not applicable. Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P501 - Dispose of contents and container in
		accordance with all local, regional, national and
		international regulations.
	Hyb Enhancer	P501 - Dispose of contents and container in
		accordance with all local, regional, national and
	Soft Conversion Reagent A	international regulations. P501 - Dispose of contents and container in
	Son Sonversion Neagent A	accordance with all local, regional, national and
		-
		1 26/02/2024 Version 11 1 6/94

		international regulations.
	2X Methyl Amplification	Not applicable.
	Mastermix	···· • • • • • • • • • • • • • • • • •
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
		••
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion Reagent B	Not applicable.
	Soft Conversion Binding	P501 - Dispose of contents and container in
	Beads	accordance with all local, regional, national and
		international regulations.
	5X Soft Conversion Wash	Not applicable.
	Buffer	
		DE01 Dianage of contents and container in
	Soft Conversion Elution	P501 - Dispose of contents and container in
	Buffer	accordance with all local, regional, national and
		international regulations.
	Soft Conversion Repair	Not applicable.
	Solution	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	
		Not applicable.
	97-192 for ILM	
Supplemental label elemer	its	
	: Nuclease-Free Water	Not applicable
Additional warning		Not applicable.
phrases	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion Reagent A	Not applicable.
	2X Methyl Amplification	Not applicable.
	Mastermix	
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion Reagent B	Not applicable.
	Soft Conversion Binding	Corrosive to the respiratory tract.
	Beads	
		Netannliachla
	5X Soft Conversion Wash	Not applicable.
	Buffer	
	Soft Conversion Elution	Not applicable.
	Buffer	
	Soft Conversion Repair	Not applicable.
	Solution	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	97-192 for ILM	Not applicable.
	97-192 IOF ILIVI	
Other hazards which do not	: Nuclease-Free Water	None known.
result in classification	End Prep Buffer	None known.
	•	
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker	None known.
	Hyb Buffer	None known.
	Hyb Enhancer	None known.
	Soft Conversion Reagent A	None known.
	2X Methyl Amplification	None known.
	Mastermix	
Date of issue/Date of revision	: 08/04/2024 Date of previous i	issue : 26/02/2024 Version : 1.1 7/8

Library Wash Buffer	None known.
Hyb Wash Buffer 1	None known.
Hyb Wash Buffer 2	None known.
Soft Conversion Reagent B	None known.
Soft Conversion Binding	Causes digestive tract burns.
Beads	
5X Soft Conversion Wash	None known.
Buffer	
Soft Conversion Elution	None known.
Buffer	
Soft Conversion Repair	None known.
Solution	
Library Binding Beads	None known.
Capture Beads	None known.
Avida Index Primer Pairs	None known.
97-192 for ILM	

Section 3. Composition and ingredient information

Substance/mixture	: Nuclease-Free Water	Substance
	End Prep Buffer	Mixture
	End Prep Enzyme	Mixture
	Ligation Buffer	Mixture
	Ligation Enzyme	Mixture
	Adapter for ILM	Mixture
	Hyb Blocker	Mixture
	Hyb Buffer	Mixture
	Hyb Enhancer	Mixture
	Soft Conversion Reagent A	Mixture
	2X Methyl Amplification	Mixture
	Mastermix	
	Library Wash Buffer	Mixture
	Hyb Wash Buffer 1	Mixture
	Hyb Wash Buffer 2	Mixture
	Soft Conversion Reagent B	Mixture
	Soft Conversion Binding	Mixture
	Beads	
	5X Soft Conversion Wash	Mixture
	Buffer	
	Soft Conversion Elution	Mixture
	Buffer	
	Soft Conversion Repair	Mixture
	Solution	
	Library Binding Beads	Mixture
	Capture Beads	Mixture
	Avida Index Primer Pairs	Mixture
	97-192 for ILM	

CAS number/other identifiers

Ingredient name			% (w/w)	CAS number
Nuclease-Free Water				
water			100	7732-18-5
End Prep Buffer				
Magnesium chloride			<2.5	7786-30-3
End Prep Enzyme				
Glycerol			≥30 - ≤60	56-81-5
Date of issue/Date of revision	: 08/04/2024	Date of previous issue	: 26/02/2024	Version : 1.1 8/84

Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Num	ber G9429B	
Section 3. Composition and ingredient infor	mation	
Ligation Buffer		
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
Ligation Enzyme		
Glycerol	≥30 - ≤60	56-81-5
Hyb Buffer		
tetramethylammonium chloride	≥10 - <15	75-57-0
Hyb Enhancer		
Formamide	≥90	75-12-7
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	≤5	25322-68-3
Soft Conversion Reagent A		
tetrahydro-2-furylmethanol	≥90	97-99-4
Library Wash Buffer		
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
Soft Conversion Reagent B		
ammonium hydrogensulphite	≥60 - ≤75	10192-30-0
Soft Conversion Binding Beads		
Ethanol	≥60 - ≤75	64-17-5
Guanidinium thiocyanate	≥10 - ≤21	593-84-0
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	≤6.5	9036-19-5
Library Binding Beads		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

Description of necessary f	irst aid measures	
Eye contact	: Nuclease-Free Water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	End Prep Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	End Prep Enzyme	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,
	Ligation Buffer	get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Ligation Enzyme	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue
	Adapter for ILM	to rinse for at least 10 minutes. If irritation persists, get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Blocker	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	Hyb Enhancer	If necessary, call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue
	Soft Conversion Reagent A	to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue
	2X Methyl Amplification Mastermix	to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Library Wash Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Wash Buffer 1	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Wash Buffer 2	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Soft Conversion Reagent B	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue
Date of issue/Date of revision	: 08/04/2024 Date of previous is	ssue : 26/02/2024 Version : 1.1 10/84

	Soft Conversion Binding Beads	to rinse for at least 10 minutes. Get medical attention. Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	5X Soft Conversion Wash Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	Soft Conversion Repair Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Library Binding Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Capture Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Avida Index Primer Pairs 97-192 for ILM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation :	Nuclease-Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	End Prep Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	End Prep Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery
	Ligation Buffer	position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept
	Ligation Enzyme	under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if

	breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.
	Maintain an open airway. Loosen tight clothing such
Adapter for ILM	as a collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a
	position comfortable for breathing. Get medical
Hyb Blocker	attention if symptoms occur. Remove victim to fresh air and keep at rest in a
	position comfortable for breathing. Get medical
Hyb Buffer	attention if symptoms occur. Remove victim to fresh air and keep at rest in a
,	position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained
	personnel. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation.
	Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery
	position and get medical attention immediately.
	Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of
	inhalation of decomposition products in a fire,
	symptoms may be delayed. The exposed person may need to be kept under medical surveillance for
	48 hours.
Hyb Enhancer	Remove victim to fresh air and keep at rest in a
	position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation.
	Get medical attention. If unconscious, place in recovery position and get medical attention
	immediately. Maintain an open airway. Loosen tight
	clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire,
	symptoms may be delayed. The exposed person
	may need to be kept under medical surveillance for 48 hours.
Soft Conversion Reagent A	Remove victim to fresh air and keep at rest in a
	position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained
	personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Get medical attention. If unconscious, place in
	recovery position and get medical attention immediately. Maintain an open airway. Loosen tight
	clothing such as a collar, tie, belt or waistband.
2X Methyl Amplification Mastermix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	attention if symptoms occur.
Library Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	attention if symptoms occur.
Hyb Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	attention if symptoms occur.

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Hyb Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	attention if symptoms occur.
Soft Conversion Reagent B	Remove victim to fresh air and keep at rest in a
	position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained
	personnel. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation.
	Get medical attention if adverse health effects persist
	or are severe. If unconscious, place in recovery position and get medical attention immediately.
	Maintain an open airway. Loosen tight clothing such
	as a collar, tie, belt or waistband. In case of
	inhalation of decomposition products in a fire,
	symptoms may be delayed. The exposed person
	may need to be kept under medical surveillance for 48 hours.
Soft Conversion Binding	Get medical attention immediately. Call a poison
Beads	center or physician. Remove victim to fresh air and
	keep at rest in a position comfortable for breathing. If
	it is suspected that fumes are still present, the
	rescuer should wear an appropriate mask or self- contained breathing apparatus. If not breathing, if
	breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained
	personnel. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation. If
	unconscious, place in recovery position and get medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie,
	belt or waistband. In case of inhalation of
	decomposition products in a fire, symptoms may be
	delayed. The exposed person may need to be kept
5X Soft Conversion Wash	under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a
Buffer	position comfortable for breathing. Get medical
Danoi	attention if symptoms occur.
Soft Conversion Elution	Get medical attention immediately. Call a poison
Buffer	center or physician. Remove victim to fresh air and
	keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the
	rescuer should wear an appropriate mask or self-
	contained breathing apparatus. If not breathing, if
	breathing is irregular or if respiratory arrest occurs,
	provide artificial respiration or oxygen by trained
	personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If
	unconscious, place in recovery position and get
	medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie,
Coff Conversion Densir	belt or waistband.
Soft Conversion Repair Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
Solution	attention if symptoms occur. In case of inhalation of
	decomposition products in a fire, symptoms may be
	delayed. The exposed person may need to be kept
Library Diradir - Daarda	under medical surveillance for 48 hours.
Library Binding Beads	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	attention if symptoms occur.
Capture Beads	Remove victim to fresh air and keep at rest in a
-	position comfortable for breathing. Get medical

	Avida Index Primer Pairs 97-192 for ILM	attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Nuclease-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	End Prep Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	End Prep Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing
	Ligation Buffer	before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	Ligation Enzyme	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing
		before reuse. Clean shoes thoroughly before reuse.
	Adapter for ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hub Blocker	
	Hyb Blocker	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	Hyb Buffer	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Hyb Enhancer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash
		contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Soft Conversion Reagent A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	2X Mathyl Amplification	
	2X Methyl Amplification Mastermix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Library Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	Hyb Wash Buffer 1	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hyb Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	Soft Conversion Reagent B	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing
	Soft Conversion Repair Solution	before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	Library Binding Beads	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	Capture Beads	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Avida Index Primer Pairs 97-192 for ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Nuclease-Free Water End Prep Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been
		swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
	End Prep Enzyme	personnel. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Ligation Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ligation Enzyme	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to

	drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Adapter for ILM	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Hyb Blocker	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Hyb Buffer	personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Hyb Enhancer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,
Soft Conversion Reagent A	tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
2X Methyl Amplification Mastermix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

Library Wash Buffer	small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Hyb Wash Buffer 1	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Hyb Wash Buffer 2	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Soft Conversion Reagent B	personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Soft Conversion Binding Beads	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
5X Soft Conversion Wash Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Soft Conversion Elution Buffer	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an

Most important

	Soft Conversion Repair Solution	recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
	Library Binding Beads	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce
	Capture Beads	vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
	Avida Index Primer Pairs 97-192 for ILM	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	ms/effects, acute and delayed	
Potential acute health		
Eye contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	Causes eye irritation.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	Causes eye irritation.
	Adapter for ILM Hyb Blocker	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	Causes serious eye irritation.
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	Ŭ
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	Causes serious eye irritation.
	Soft Conversion Binding	Causes serious eye damage.
	Beads	No. In the second of the second of the second state of the second s
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution	Causes serious eye damage.
	Buffer	Causes serious eye damage.
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	· · · · · · · · · · · · · · · · · · ·
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.

unconscious person. If unconscious, place in

Inhalation	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single
		exposure if inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A 2X Methyl Amplification	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Mastermix	No known significant enects of childa hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Corrosive to the respiratory tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Skin contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. Causes damage to organs following a single
	Lluch Embanasar	exposure in contact with skin. Causes skin irritation.
	Hyb Enhancer Soft Conversion Reagent A	No known significant effects or critical hazards. No known significant effects or critical hazards.
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Causes severe burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes severe burns.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.

Section 4. Thist a		
Ingestion	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer End Prep Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Harmful if swallowed. Causes damage to organs
		following a single exposure if swallowed.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B Soft Conversion Binding	No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns.
	Beads	Conosive to the digestive tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>	
Eye contact	: Nuclease-Free Water	No specific data.
	End Prep Buffer End Prep Enzyme	No specific data. Adverse symptoms may include the following: irritation watering redness
	Ligation Buffer	No specific data.
	Ligation Enzyme	Adverse symptoms may include the following: irritation watering redness
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following: pain or irritation watering redness
	Hyb Enhancer	No specific data.
	Soft Conversion Reagent A	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2 Soft Conversion Reagent B	No specific data. Adverse symptoms may include the following:
	Son Conversion Reagent D	pain or irritation watering
	Soft Conversion Binding	redness Adverse symptoms may include the following:
	Son Conversion binding	
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	Beads	
		pain
		watering
		redness
	5X Soft Conversion Wash	No specific data.
	Buffer	
	Soft Conversion Elution	Adverse symptoms may include the following:
	Buffer	
		pain
		watering
		redness
	Soft Conversion Repair	No specific data.
	Solution	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
Inhalation	97-192 for ILM Nuclease-Free Water	No specific data.
Innalation		•
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
	Coff Commencies Decement A	skeletal malformations
	Soft Conversion Reagent A	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Methyl Amplification	No specific data.
	Mastermix	
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		respiratory tract irritation
		coughing
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution	No specific data.
	Buffer	
	Soft Conversion Repair	No specific data.
	Solution	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	97-192 for ILM	
Skin contact	Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		irritation
		redness

	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight
	Soft Conversion Reagent A	increase in foetal deaths skeletal malformations Adverse symptoms may include the following:
		reduced foetal weight increase in foetal deaths skeletal malformations
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer Hyb Wash Buffer 1	No specific data. No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		pain or irritation redness
		blistering may occur
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:
		pain or irritation
		redness blistering may occur
	Soft Conversion Repair	No specific data.
	Solution	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 97-192 for ILM	No specific data.
Ingestion	: Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer Ligation Enzyme	No specific data. No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight increase in foetal deaths
		skeletal malformations
	Soft Conversion Reagent A	Adverse symptoms may include the following:
	5	reduced foetal weight
		increase in foetal deaths
	OV Mathud Amplification	skeletal malformations
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		stomach pains
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:
	0 4 0	stomach pains
	Soft Conversion Repair	No specific data.
	•	

22/84

Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 97-192 for ILM

No specific data. No specific data. No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician :	Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	End Prep Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	End Prep Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ligation Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Ligation Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adapter for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Blocker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Hyb Enhancer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Soft Conversion Reagent A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	2X Methyl Amplification Mastermix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Library Wash Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Hyb Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Soft Conversion Reagent B	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Soft Conversion Binding Beads	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	5X Soft Conversion Wash	Treat symptomatically. Contact poison treatment

	Buffer	specialist immediately if large quantities have been ingested or inhaled.
	Soft Conversion Elution Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
	Soft Conversion Repair Solution	ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical
	Library Binding Beads	surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
	Capture Beads	ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
	Avida Index Primer Pairs 97-192 for ILM	ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
Specific treatments	: Nuclease-Free Water	Nossteeine inbalindent.
	End Prep Buffer	No specific treatment.
	End Prep Enzyme	No specific treatment.
	Ligation Buffer	No specific treatment.
	Ligation Enzyme	No specific treatment.
	Adapter for ILM	No specific treatment.
	Hyb Blocker	No specific treatment.
	Hyb Buffer	No specific treatment.
	Hyb Enhancer	No specific treatment.
	Soft Conversion Reagent A 2X Methyl Amplification	No specific treatment. No specific treatment.
	Mastermix	
	Library Wash Buffer	No specific treatment.
	Hyb Wash Buffer 1	No specific treatment.
	Hyb Wash Buffer 2 Soft Conversion Reagent B	No specific treatment. No specific treatment.
	Soft Conversion Binding Beads	No specific treatment.
	5X Soft Conversion Wash Buffer	No specific treatment.
	Soft Conversion Elution Buffer	No specific treatment.
	Soft Conversion Repair Solution	No specific treatment.
	Library Binding Beads	No specific treatment.
	Capture Beads	No specific treatment.
	Avida Index Primer Pairs 97-192 for ILM	No specific treatment.
Protection of first-aiders	: Nuclease-Free Water	No action shall be taken involving any personal risk
	End Prep Buffer	or without suitable training. No action shall be taken involving any personal risk or without suitable training.
	End Prep Enzyme	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to
		the person providing aid to give mouth-to-mouth resuscitation.
	Ligation Buffer	No action shall be taken involving any personal risk
	Ligation Enzyme	or without suitable training. No action shall be taken involving any personal risk
		or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Adapter for ILM	No action shall be taken involving any personal risk or without suitable training.
	Hyb Blocker	No action shall be taken involving any personal risk or without suitable training.
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 Version
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 24/84

Hyb Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to
	the person providing aid to give mouth-to-mouth resuscitation.
Hyb Enhancer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that
	fumes are still present, the rescuer should wear an
	appropriate mask or self-contained breathing apparatus. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation.
	Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Soft Conversion Reagent A	No action shall be taken involving any personal risk
	or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an
	appropriate mask or self-contained breathing apparatus. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation.
	Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
2X Methyl Amplification	No action shall be taken involving any personal risk
Mastermix Library Wash Buffer	or without suitable training. No action shall be taken involving any personal risk
	or without suitable training.
Hyb Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
Hyb Wash Buffer 2	No action shall be taken involving any personal risk
Soft Conversion Reagent B	or without suitable training. No action shall be taken involving any personal risk
Con Conversion Reagent D	or without suitable training. It may be dangerous to
	the person providing aid to give mouth-to-mouth resuscitation.
Soft Conversion Binding	No action shall be taken involving any personal risk
Beads	or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an
	appropriate mask or self-contained breathing
	apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Wash contaminated clothing thoroughly with water
5X Soft Conversion Wash	before removing it, or wear gloves. No action shall be taken involving any personal risk
Buffer	or without suitable training.
Soft Conversion Elution Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that
	fumes are still present, the rescuer should wear an
	appropriate mask or self-contained breathing apparatus. It may be dangerous to the person
	providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water
	before removing it, or wear gloves.
Soft Conversion Repair Solution	No action shall be taken involving any personal risk or without suitable training.
Library Binding Beads	No action shall be taken involving any personal risk
Capture Beads	or without suitable training. No action shall be taken involving any personal risk
	or without suitable training.
Avida Index Primer Pairs 97-192 for ILM	No action shall be taken involving any personal risk or without suitable training.
	or manout outdoio training.

See toxicological information (Section 11)

<u>Extinguishing media</u>		
Suitable extinguishing media	: Nuclease-Free Water	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Buffer	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Adapter for ILM	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Blocker	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Enhancer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Reagent A	Use dry chemical, CO_2 , water spray (fog) or foam.
	2X Methyl Amplification	Use an extinguishing agent suitable for the
	Mastermix	surrounding fire.
	Library Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Reagent B	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Binding Beads	Use dry chemical, CO_2 , water spray (fog) or foam.
	5X Soft Conversion Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Elution Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Soft Conversion Repair Solution	Use an extinguishing agent suitable for the surrounding fire.
	Library Binding Beads	Use an extinguishing agent suitable for the surrounding fire.
	Capture Beads	Use an extinguishing agent suitable for the surrounding fire.
	Avida Index Primer Pairs 97-192 for ILM	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing	: Nuclease-Free Water	None known.
media	End Prep Buffer	None known.
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker Hyb Buffer	None known. None known.
	Hyb Enhancer	None known.
	Soft Conversion Reagent A	Do not use water jet.
	2X Methyl Amplification Mastermix	None known.
	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Soft Conversion Reagent B	None known.
	Soft Conversion Binding Beads	Do not use water jet.

Section 5. Fireng	inting measures	
	5X Soft Conversion Wash Buffer	None known.
	Soft Conversion Elution Buffer	None known.
	Soft Conversion Repair Solution	None known.
	Library Binding Beads	None known.
	Capture Beads Avida Index Primer Pairs 97-192 for ILM	None known. None known.
Specific hazards arising from the chemical	: Nuclease-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	End Prep Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	End Prep Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ligation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ligation Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	Adapter for ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Blocker	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hyb Enhancer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Soft Conversion Reagent	
	2X Methyl Amplification	In a fire or if heated, a pressure increase will occur
	Mastermix Library Wash Buffer	and the container may burst. In a fire or if heated, a pressure increase will occur
	Hyb Wash Buffer 1	and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst
	Hyb Wash Buffer 2	and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	Soft Conversion Reagent	
	Soft Conversion Binding Beads	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be
	5X Soft Conversion Wash Buffer	contained and prevented from being discharged to any waterway, sewer or drain.
	Soft Conversion Elution	In a fire or if heated, a pressure increase will occur
Date of issue/Date of revision	: 08/04/2024 Date of previou	Is issue : 26/02/2024 Version : 1.1 27/84

occurre in the ing		
	Buffer	and the container may burst.
	Soft Conversion Repair Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	Library Binding Beads	In a fire or if heated, a pressure increase will occur
	, 3	and the container may burst.
	Capture Beads	In a fire or if heated, a pressure increase will occur and the container may burst.
	Avida Index Primer Pairs 97-192 for ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal	: Nuclease-Free Water	No specific data.
decomposition products	End Prep Buffer	Decomposition products may include the following materials: carbon dioxide
		carbon monoxide
		nitrogen oxides
		halogenated compounds metal oxide/oxides
	End Prep Enzyme	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
	Ligation Buffer	Decomposition products may include the following
		materials:
		carbon dioxide carbon monoxide
		nitrogen oxides
		halogenated compounds
	Ligation Enzyme	Decomposition products may include the following
		materials:
		carbon dioxide
	Adaptor for ILM	carbon monoxide
	Adapter for ILM Hyb Blocker	No specific data. No specific data.
	Hyb Buffer	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides
		sulfur oxides
		phosphorus oxides
		halogenated compounds metal oxide/oxides
	Hyb Enhancer	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
	Soft Conversion Reagant A	nitrogen oxides
	Soft Conversion Reagent A	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
	2X Methyl Amplification	Decomposition products may include the following
	Mastermix	materials: carbon dioxide
		carbon monoxide
	Library Wash Buffer	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
		halogenated compounds
	Hub Wash Puffer 1	metal oxide/oxides
	Hyb Wash Buffer 1	Decomposition products may include the following materials:
Date of issue/Date of revision	: 08/04/2024 Date of previous	issue : 26/02/2024 Version : 1.1 28

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		halogenated compounds metal oxide/oxides
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent E	
		nitrogen oxides
	Soft Conversion Binding	sulfur oxides
	Soft Conversion Binding Beads	Decomposition products may include the following materials:
		carbon dioxide carbon monoxide
		nitrogen oxides
		sulfur oxides
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide nitrogen oxides
		halogenated compounds
	Library Binding Beads	Decomposition products may include the following
		materials: carbon dioxide
		carbon monoxide
		halogenated compounds
		metal oxide/oxides
	Capture Beads Avida Index Primer Pairs 97-192 for ILM	No specific data. No specific data.
Special protective actions for fire-fighters	: Nuclease-Free Water	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
	End Prep Buffer	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
		without suitable training.
	End Prep Enzyme	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
		action shall be taken involving any personal risk or without suitable training.
	Ligation Buffer	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
		without suitable training.
	Ligation Enzyme	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
		without suitable training.
	Adapter for ILM	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
		without suitable training.
	Hyb Blocker	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
	Hyb Buffer	without suitable training. Promptly isolate the scene by removing all persons
Γ		from the vicinity of the incident if there is a fire. No
Date of issue/Date of revision	: 08/04/2024 Date of previou	s issue : 26/02/2024 Version : 1.1 29

	action shall be taken involving any personal risk or
	without suitable training.
Hyb Enhancer	Promptly isolate the scene by removing all persons
	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
Soft Conversion Descent A	without suitable training.
Soft Conversion Reagent A	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training. Move containers from fire
	area if this can be done without risk. Use water spray
	to keep fire-exposed containers cool.
2X Methyl Amplification	Promptly isolate the scene by removing all persons
Mastermix	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Library Wash Buffer	Promptly isolate the scene by removing all persons
2	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Hyb Wash Buffer 1	Promptly isolate the scene by removing all persons
	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Hyb Wash Buffer 2	Promptly isolate the scene by removing all persons
	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Soft Conversion Reagent B	Promptly isolate the scene by removing all persons
	from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
	without suitable training.
Soft Conversion Binding	Promptly isolate the scene by removing all persons
Beads	from the vicinity of the incident if there is a fire. No
Deddo	action shall be taken involving any personal risk or
	without suitable training. Move containers from fire
	area if this can be done without risk. Use water spray
	to keep fire-exposed containers cool.
5X Soft Conversion Wash	Promptly isolate the scene by removing all persons
Buffer	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Soft Conversion Elution	Promptly isolate the scene by removing all persons
Buffer	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Soft Conversion Repair	Promptly isolate the scene by removing all persons
Solution	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or without suitable training.
Library Binding Beads	Promptly isolate the scene by removing all persons
Library binding beaus	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Capture Beads	Promptly isolate the scene by removing all persons
	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.
Avida Index Primer Pairs	Promptly isolate the scene by removing all persons
97-192 for ILM	from the vicinity of the incident if there is a fire. No
	action shall be taken involving any personal risk or
	without suitable training.

30/84

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Special protective equipment for fire-fighters	: Nuclease-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	End Prep Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	End Prep Enzyme	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Ligation Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Ligation Enzyme	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Adapter for ILM	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Blocker	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Enhancer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Soft Conversion Reagent A	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	2X Methyl Amplification Mastermix	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Library Wash Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Hyb Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Soft Conversion Reagent B	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode
	Soft Conversion Binding Beads	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

31/84

	5X Soft Conversion Wash	pressure mode. Fire-fighters should wear appropriate protective
	Buffer	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
		pressure mode.
	Soft Conversion Elution	Fire-fighters should wear appropriate protective
	Buffer	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
		pressure mode.
	Soft Conversion Repair Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
		pressure mode.
	Library Binding Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Capture Beads	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Avida Index Primer Pairs	pressure mode. Fire-fighters should wear appropriate protective
	97-192 for ILM	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazchem code	: Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	3WE
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	2X
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 97-192 for ILM	Not available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency	: Nuclease-Free Water	No action shall be taken involving any personal risk
personnel		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	End Prep Buffer	No action shall be taken involving any personal risk
		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	End Prep Enzyme	No action shall be taken involving any personal risk
		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Avoid breathing vapour or mist.
		Provide adequate ventilation. Wear appropriate
		respirator when ventilation is inadequate. Put on
		appropriate personal protective equipment.
	Ligation Buffer	No action shall be taken involving any personal risk
	Ligation Buller	or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	Ligation Enzyme	No action shall be taken involving any personal risk
	Ligation Enzyme	or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Avoid breathing vapour or mist.
		Provide adequate ventilation. Wear appropriate
		respirator when ventilation is inadequate. Put on
	Adapter for ILM	appropriate personal protective equipment. No action shall be taken involving any personal risk
		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	Hyb Blocker	No action shall be taken involving any personal risk
		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	Hyb Buffer	No action shall be taken involving any personal risk
		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Avoid breathing vapour or mist.
		Provide adequate ventilation. Wear appropriate
		respirator when ventilation is inadequate. Put on
		appropriate personal protective equipment.
	Hyb Enhancer	No action shall be taken involving any personal risk
	,	or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Avoid breathing vapour or mist.
		Provide adequate ventilation. Wear appropriate
		respirator when ventilation is inadequate. Put on
		appropriate personal protective equipment.
	Soft Conversion Reagent A	No action shall be taken involving any personal risk
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	or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate
2X Methyl Amplification Mastermix	personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal
Library Wash Buffer	protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal
Hyb Wash Buffer 1	protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected
Hyb Wash Buffer 2	personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal
Soft Conversion Reagent B	protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding
Soft Conversion Binding Beads	areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective
5X Soft Conversion Wash Buffer	equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal
Soft Conversion Elution Buffer	protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate

		respirator when ventilation is inadequate. Put on
		appropriate personal protective equipment.
	Soft Conversion Repair	No action shall be taken involving any personal risk
	Solution	or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	Library Binding Beads	No action shall be taken involving any personal risk
	Elorary Diriding Deads	or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
	Capture Beads	through spilt material. Put on appropriate personal
		protective equipment.
		No action shall be taken involving any personal risk
		or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
	Avida Index Primer Pairs	No action shall be taken involving any personal risk
	97-192 for ILM	or without suitable training. Evacuate surrounding
		areas. Keep unnecessary and unprotected
		personnel from entering. Do not touch or walk
		through spilt material. Put on appropriate personal
		protective equipment.
For emergency responders :	Nuclease-Free Water	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	End Prep Buffer	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	End Prep Enzyme	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Ligation Buffer	If specialised clothing is required to deal with the
	5	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Ligation Enzyme	If specialised clothing is required to deal with the
	Eigetion Enzymo	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Adapter for ILM	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Hyb Blocker	
	Hyb Blocker	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Hyb Buffer	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Hyb Enhancer	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Soft Conversion Reagent A	If specialised clothing is required to deal with the

		anillage take note of any information in Section 9 on
		spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	2X Mathyl Amplification	information in "For non-emergency personnel".
	2X Methyl Amplification	If specialised clothing is required to deal with the
	Mastermix	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Library Wash Buffer	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Hyb Wash Buffer 1	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Hyb Wash Buffer 2	If specialised clothing is required to deal with the
	-	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Soft Conversion Reagent B	If specialised clothing is required to deal with the
	5	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Soft Conversion Binding	If specialised clothing is required to deal with the
	Beads	spillage, take note of any information in Section 8 on
	Deads	suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	5X Soft Conversion Wash	If specialised clothing is required to deal with the
	Buffer	
	Dullel	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
	Coff Commencian Election	information in "For non-emergency personnel".
	Soft Conversion Elution	If specialised clothing is required to deal with the
	Buffer	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Soft Conversion Repair	If specialised clothing is required to deal with the
	Solution	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Library Binding Beads	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Capture Beads	If specialised clothing is required to deal with the
		spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
	Avida Index Primer Pairs	If specialised clothing is required to deal with the
	97-192 for ILM	spillage, take note of any information in Section 8 on
		suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
		, , , , , , , , , , , , , , , , , , ,
Environmental precautions	: Nuclease-Free Water	Avoid dispersal of spilt material and runoff and
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers, waterways,
		soil or air).
	End Prep Buffer	Avoid dispersal of spilt material and runoff and
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers, waterways,
		soil or air). Water polluting material. May be harmful
		to the environment if released in large quantities.
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36/84

End Prep Enzyme	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ligation Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ligation Enzyme	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Adapter for ILM	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Hyb Blocker	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,
Hyb Buffer	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful
Hyb Enhancer	to the environment if released in large quantities. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,
Soft Conversion Reagent A	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, asil or air)
2X Methyl Amplification Mastermix	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Library Wash Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Hyb Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Hyb Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,
Soft Conversion Reagent B	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision	: 08/04/2024 Date of previous	issue : 26/02/2024 Version : 1.1 38/84
	Ligation Buffer	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an
	End Prep Enzyme	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an
	End Prep Buffer	Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste
Methods for cleaning up	: Nuclease-Free Water	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.
Methods and material for c	ontainment and cleaning up	
		caused environmental pollution (sewers, waterways, soil or air).
	Avida Index Primer Pairs 97-192 for ILM	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	Capture Beads	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	Library Binding Beads	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,
	Soft Conversion Repair Solution	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Soft Conversion Elution Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	5X Soft Conversion Wash Buffer	to the environment if released in large quantities. Collect spillage. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Soft Conversion Binding Beads	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful
		Inform the relevant authorities if the product has

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste
	disposal contractor.
Ligation Enzyme	Stop leak if without risk. Move containers from spill
5 ,	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Adapter for ILM	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Blocker	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Buffer	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Enhancer	Stop leak if without risk. Move containers from spill
5	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Soft Conversion Reagent A	Stop leak if without risk. Move containers from spill
C C	area. Use spark-proof tools and explosion-proof
	equipment. Dilute with water and mop up if water-
	soluble. Alternatively, or if water-insoluble, absorb
	with an inert dry material and place in an appropriate
	waste disposal container. Dispose of via a licensed
	waste disposal contractor.
2X Methyl Amplification	Stop leak if without risk. Move containers from spill
Mastermix	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Library Wash Buffer	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Wash Buffer 1	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Wash Buffer 2	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste

	disposal contractor.
Soft Conversion Reagent B	Stop leak if without risk. Move containers from spill
C C	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Soft Conversion Binding	Stop leak if without risk. Move containers from spill
Beads	area. Use spark-proof tools and explosion-proof
Deaus	equipment. Dilute with water and mop up if water-
	soluble. Alternatively, or if water-insoluble, absorb
	with an inert dry material and place in an appropriate
	waste disposal container. Dispose of via a licensed
	waste disposal contractor.
5X Soft Conversion Wash	Stop leak if without risk. Move containers from spill
Buffer	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Soft Conversion Elution	Stop leak if without risk. Move containers from spill
Buffer	area. Contain and collect spillage with non-
	combustible, absorbent material e.g. sand, earth,
	vermiculite or diatomaceous earth and place in
	container for disposal according to local regulations.
	Dispose of via a licensed waste disposal contractor.
Soft Conversion Repair	Stop leak if without risk. Move containers from spill
Solution	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Library Binding Beads	Stop leak if without risk. Move containers from spill
Listary Britarig Bedde	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Capture Beads	Stop leak if without risk. Move containers from spill
Capitile Deads	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	· · · · ·
	disposal container. Dispose of via a licensed waste
Avide Index Drimer Deire	disposal contractor.
Avida Index Primer Pairs 97-192 for ILM	Stop leak if without risk. Move containers from spill
97-192 IOF ILIVI	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.

Section 7. Handling and storage

Precaut	<u>ions</u>	for sat	e	hand	ing
Protec	tive r	neasu	res		

: Nuclease-Free Water

End Prep Buffer

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue

End Prep Enzyme	and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved
	alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not
Ligation Buffer	reuse container. Put on appropriate personal protective equipment
Ligation Enzyme	(see Section 8). Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with
	eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not
Adapter for ILM	reuse container. Put on appropriate personal protective equipment (see Section 8).
Hyb Blocker	Put on appropriate personal protective equipment (see Section 8).
Hyb Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or
	clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be
Hyb Enhancer	hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Soft Conversion Reagent A	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking

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		tools. Empty containers retain product residue and
	2X Methyl Amplification	can be hazardous. Do not reuse container.
	2X Methyl Amplification Mastermix	Put on appropriate personal protective equipment (see Section 8).
	Library Wash Buffer	Put on appropriate personal protective equipment
	-	(see Section 8).
	Hyb Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	Hyb Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	Soft Conversion Reagent B	Put on appropriate personal protective equipment
		(see Section 8). Do not ingest. Avoid contact with
		eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved
		alternative made from a compatible material, kept
		tightly closed when not in use. Empty containers
		retain product residue and can be hazardous. Do not
	Soft Conversion Binding	reuse container.
	Soft Conversion Binding Beads	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or
	Boudd	clothing. Do not breathe vapour or mist. Do not
		ingest. Avoid release to the environment. Use only
		with adequate ventilation. Wear appropriate
		respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless
		adequately ventilated. Keep in the original container
		or an approved alternative made from a compatible
		material, kept tightly closed when not in use. Store
		and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical
		(ventilating, lighting and material handling) equipment.
		Use only non-sparking tools. Take precautionary
		measures against electrostatic discharges. Empty
		containers retain product residue and can be hazardous. Do not reuse container.
	5X Soft Conversion Wash	Put on appropriate personal protective equipment
	Buffer	(see Section 8).
	Soft Conversion Elution	Put on appropriate personal protective equipment
	Buffer	(see Section 8). Do not get in eyes or on skin or
		clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a
		respiratory hazard, use only with adequate ventilation
		or wear appropriate respirator. Keep in the original
		container or an approved alternative made from a
		compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain
		product residue and can be hazardous. Do not reuse
		container.
	Soft Conversion Repair Solution	Put on appropriate personal protective equipment (see Section 8).
	Library Binding Beads	Put on appropriate personal protective equipment (see Section 8).
	Capture Beads	Put on appropriate personal protective equipment
	Avida Index Primer Pairs	(see Section 8). Put on appropriate personal protective equipment
	97-192 for ILM	(see Section 8).
:	Nuclease-Free Water	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and
		processed. Workers should wash hands and face before eating, drinking and smoking. Remove
		contaminated clothing and protective equipment
		before entering eating areas. See also Section 8 for
		additional information on hygiene measures.

Advice on general occupational hygiene

42/84

End Prep Buffer	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
End Prep Enzyme	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
Lization Duffer	additional information on hygiene measures.
Ligation Buffer	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Ligation Enzyme	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Adapter for ILM	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Hyb Blocker	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Hyb Buffer	Eating, drinking and smoking should be prohibited in
Tiyb Bullel	areas where this material is handled, stored and
	•
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Hyb Enhancer	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
o " o — —	additional information on hygiene measures.
Soft Conversion Reagent A	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.

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2X Methyl Amplification Mastermix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment
Library Wash Buffer	before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove
Hyb Wash Buffer 1	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face
Hyb Wash Buffer 2	before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face
Soft Conversion Reagent B	before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove
Soft Conversion Binding Beads	contaminated clothing and smoking. Termove before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove
5X Soft Conversion Wash Buffer	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove
Soft Conversion Elution Buffer	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment
Soft Conversion Repair Solution	before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

44/84

	Library Binding Beads Capture Beads	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment
	Avida Index Primer Pairs 97-192 for ILM	before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Nuclease-Free Water	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	End Prep Buffer	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid
	End Prep Enzyme	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid
	Ligation Buffer	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled

45/84

	containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Ligation Enzyme	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from
	incompatible materials (see Section 10) and food and
	drink. Keep container tightly closed and sealed until
	ready for use. Containers that have been opened
	must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
Adapter for ILM	incompatible materials before handling or use. Store in accordance with local regulations. Store in
	original container protected from direct sunlight in a
	dry, cool and well-ventilated area, away from
	incompatible materials (see Section 10) and food and
	drink. Keep container tightly closed and sealed until
	ready for use. Containers that have been opened must be carefully resealed and kept upright to
	prevent leakage. Do not store in unlabelled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for incompatible materials before handling or use.
Hyb Blocker	Store in accordance with local regulations. Store in
	original container protected from direct sunlight in a
	dry, cool and well-ventilated area, away from
	incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until
	ready for use. Containers that have been opened
	must be carefully resealed and kept upright to
	prevent leakage. Do not store in unlabelled
	containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	incompatible materials before handling or use.
Hyb Buffer	Store in accordance with local regulations. Store in
	original container protected from direct sunlight in a
	dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and
	drink. Store locked up. Keep container tightly closed
	and sealed until ready for use. Containers that have
	been opened must be carefully resealed and kept
	upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
	incompatible materials before handling or use.
Hyb Enhancer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a
	dry, cool and well-ventilated area, away from
	incompatible materials (see Section 10) and food and
	drink. Store locked up. Keep container tightly closed
	and sealed until ready for use. Containers that have been opened must be carefully resealed and kept
	upright to prevent leakage. Do not store in unlabelled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
Soft Conversion Reagent A	incompatible materials before handling or use. Store in accordance with local regulations. Store in a
Con Convolution Reagonic A	segregated and approved area. Store in original
	container protected from direct sunlight in a dry, cool
	and well-ventilated area, away from incompatible
	materials (see Section 10) and food and drink. Store

	locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section
2X Methyl Amplification Mastermix	10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened
Library Wash Buffer	must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in
	original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid
Hyb Wash Buffer 1	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled
	containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Hyb Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Soft Conversion Reagent B	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Soft Conversion Binding Beads	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
5X Soft Conversion Wash Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Soft Conversion Elution Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before
Soft Conversion Repair Solution	handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
Library Binding Beads	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
Capture Beads	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until

Avida Index Primer Pairs 97-192 for ILM ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
End Prep Enzyme Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
Ligation Buffer Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	DFG MAC-values list (Germany, 7/2023). PEAK: 400 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m ³ 8 hours. Form: inhalable fraction
Ligation Enzyme Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
Hyb Enhancer Formamide	Safe Work Australia (Australia, 10/2022). Absorbed through skin. TWA: 18 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	DFG MAC-values list (Germany, 7/2023). PEAK: 400 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m ³ 8 hours. Form: inhalable fraction
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	DFG MAC-values list (Germany, 7/2023). PEAK: 400 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m ³ 8 hours. Form: inhalable fraction
Soft Conversion Binding Beads Ethanol	Safe Work Australia (Australia, 10/2022). TWA: 1880 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

Date of previous issue

Section 8. Exposure controls and personal protection

Library Binding Beads Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	DFG MAC-values list (Germany, 7/2023). PEAK: 400 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m ³ 8 hours. Form: inhalable fraction
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Biological exposure indices

No exposure indices known.

Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash

		goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Nuclease-Free Water	Liquid.
	End Prep Buffer	Liquid.
	End Prep Enzyme	Liquid.
	Ligation Buffer	Liquid.
	Ligation Enzyme	Liquid.
	Adapter for ILM	Liquid.
	HybBlocker	Liquid.
	Hyb Buffer	Liquid.
	Hyb Enhancer	Liquid.
	Soft Conversion Reagent A	Liquid.
	2X Methyl Amplification Mastermix	Liquid. [Clear.]
	Library Wash Buffer	Liquid.
	Hyb Ŵash Buffer 1	Liquid.
	Hyb Wash Buffer 2	Liquid.
	Soft Conversion Reagent B	Liquid.
	Soft Conversion Binding	Liquid.
	Beads	
	5X Soft Conversion Wash Buffer	Liquid.
	Soft Conversion Elution	Liquid.
	Buffer	I fan dal
	Soft Conversion Repair Solution	Liquid.
	Library Binding Beads	Liquid.
	Capture Beads	Liquid.
	Avida Index Primer Pairs 97-192 for ILM	Liquid.
Colour	: Nuclease-Free Water	Colourless.
Colour	: Nuclease-Free Water End Prep Buffer	Colourless. Not available.
Colour	End Prep Buffer	Not available.
Colour	End Prep Buffer End Prep Enzyme	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer	Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads	Not available. Not available.
Colour	End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution	Not available. Not available.

Odour	: Nuclease-Free Water	Odourless.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Ŵash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding	Not available.
	Beads	Netevolable
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 97-192 for ILM	Not available.
Odour threshold	: Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding Beads	Not available.
	5X Soft Conversion Wash Buffer	Not available.
	Soft Conversion Elution Buffer	Not available.
	Soft Conversion Repair Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 97-192 for ILM	Not available.

рН	: Nuclease-Free Water	7
	End Prep Buffer	8
	End Prep Enzyme	7.5
	Ligation Buffer	8
	Ligation Enzyme	7.5
	Adapter for ILM	8
	Hyb Blocker	8
	Hyb Buffer	7.5
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification	8.6
	Mastermix	0.0
		Not available
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	7.2 to 7.6
	Hyb Wash Buffer 2	7.2 to 7.6
	Soft Conversion Reagent B	4.5 to 5.5
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion Wash	Not available.
	Buffer	
	Soft Conversion Elution	13
	Buffer	
	Soft Conversion Repair	8
	Solution	
	Library Binding Beads	8
	Capture Beads	Not available.
	Avida Index Primer Pairs	8
	97-192 for ILM	
Melting point/freezing point	: Nuclease-Free Water	0°C (32°F)
	End Prep Buffer	Not available.
	•	
	End Prep Enzyme	Not available
	End Prep Enzyme	Not available. Not available
	Ligation Buffer	Not available.
	Ligation Buffer Ligation Enzyme	Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM	Not available. Not available. 0°C (32°F)
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	Not available. Not available. 0°C (32°F) 0°C (32°F)
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F)
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available. Not available. Not available. 0°C (32°F)
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available. Not available. 0°C (32°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available. Not available. 0°C (32°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. Not available. 0°C (32°F) Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. Not available. 0°C (32°F) Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. Not available. 0°C (32°F) Not available. Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. Not available. 0°C (32°F) Not available. Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available. Not available. 0°C (32°F) Not available. 0°C (32°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. Not available. <-120°C (<-184°F) Not available. Not available. 0°C (32°F) Not available. 0°C (32°F) Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Soft Conversion Repair Solution	Not available. Not available. $0^{\circ}C (32^{\circ}F)$ $0^{\circ}C (32^{\circ}F)$ Not available. Not available. $<-120^{\circ}C (<-184^{\circ}F)$ Not available. Not available. $0^{\circ}C (32^{\circ}F)$ Not available. $0^{\circ}C (32^{\circ}F)$ Not available. Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads	Not available. Not available. $0^{\circ}C (32^{\circ}F)$ $0^{\circ}C (32^{\circ}F)$ Not available. Not available. $<-120^{\circ}C (<-184^{\circ}F)$ Not available. Not available. $0^{\circ}C (32^{\circ}F)$ Not available. $0^{\circ}C (32^{\circ}F)$ Not available. Not available. Not available. Not available. Not available.
	Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads	Not available. Not available. 0°C (32°F) 0°C (32°F) Not available. <-120°C (<-184°F) Not available. Not available. 0°C (32°F) Not available. 0°C (32°F) Not available. 0°C (32°F) Not available. Not available. Not available. Not available. Not available. Not available. Not available.

Boiling point, initial boiling	Nuclease-Free Water	100°C (212°F)
point, and boiling range	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	100°C (212°F)
	Hyb Blocker	100°C (212°F)
	Hyb Buffer	Not available.
		Not available.
	Hyb Enhancer	
	Soft Conversion Reagent A	177.7°C (351.9°F)
	2X Methyl Amplification Mastermix	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	100°C (212°F)
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding	Not available.
	Beads	100°C (010°E)
	5X Soft Conversion Wash Buffer	100°C (212°F)
	Soft Conversion Elution	Not available.
	Buffer	Not available.
	Soft Conversion Repair	Not available.
	Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	100°C (212°F)
	97-192 for ILM	
Flash point	Nuclease-Free Water	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Closed cup: 73°C (163.4°F)
	2X Methyl Amplification Mastermix	Not available.
		Not available.
	Library Wash Buffer	
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	•	
	Soft Conversion Binding	Closed cup: 37.8 to 61°C (100 to 141.8°F)
	Soft Conversion Binding Beads	Closed cup: 37.8 to 61°C (100 to 141.8°F)
	Soft Conversion Binding Beads 5X Soft Conversion Wash	
	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer	Closed cup: 37.8 to 61°C (100 to 141.8°F) Not available.
	Soft Conversion Binding Beads 5X Soft Conversion Wash	Closed cup: 37.8 to 61°C (100 to 141.8°F)
	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution	Closed cup: 37.8 to 61°C (100 to 141.8°F) Not available.
	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution	Closed cup: 37.8 to 61°C (100 to 141.8°F) Not available. Not available. Not available.
	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads	Closed cup: 37.8 to 61°C (100 to 141.8°F) Not available. Not available. Not available. Not available.
	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads	Closed cup: 37.8 to 61°C (100 to 141.8°F) Not available. Not available. Not available. Not available. Not available.
	Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads	Closed cup: 37.8 to 61°C (100 to 141.8°F) Not available. Not available. Not available. Not available.

dient name Prep Enzyme rol ion Buffer DXY- hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated ion Enzyme rol Enhancer amide	• C - 171 to 235	• F - 339.8 to 455	Method -	°C 177 199 to 238	°F 350.6 390.2 to 460.4	Method
rol ion Buffer oxy- hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated ion Enzyme rol			-	199 to	390.2	-
ion Buffer Dxy- hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated ion Enzyme rol Enhancer			-	199 to	390.2	-
oxy- hanediyl),α- -ω-hydroxy- le-1,2-diol, ylated ion Enzyme rol Enhancer			-			-
hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated ion Enzyme rol Enhancer			-			-
rol Enhancer	-					
Enhancer	-					
		-	-	177	350.6	-
amide						
	150	302	-	152	305.6	DIN EN ISO 2592
oxy- hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
ry Wash r						
oxy- hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
ry Binding s						
oxy- hanediyl),α- -ω-hydroxy- ie-1,2-diol, ylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
rep Buffer rep Enzyme on Buffer on Enzyme er for ILM locker	er	Not ava Not ava Not ava Not ava Not ava Not ava	ilable. ilable. ilable. ilable. ilable. ilable. ilable.			
	s oxy- hanediyl),α- -ω-hydroxy- e-1,2-diol, ylated ase-Free Wate rep Buffer rep Enzyme n Buffer n Enzyme er for ILM ocker uffer hancer onversion Rea	s oxy- hanediyl),α- -ω-hydroxy- e-1,2-diol, ylated ase-Free Water rep Buffer rep Enzyme n Buffer n Enzyme er for ILM ocker uffer	s171 to 339.8banediyl),α- +ω-hydroxy- e-1,2-diol, ylated235to 455w-hydroxy- e-1,2-diol, ylatedNot ava xot ava n BufferNot ava xot ava n bufferase-Free Water rep EnzymeNot ava xot ava n BufferNot ava xot ava	s171 to 339.8 to 455oxy- hanediyl),α- -ω-hydroxy- e-1,2-diol, ylated171 to 235339.8 to 455ase-Free Water rep BufferNot available.rep Buffer n BufferNot available.n Buffer n EnzymeNot available.ocker ufferNot available.ocker n BufferNot available.n Enzyme ockerNot available.ocker nhancerNot available.Not available.Not available.ocker nhancerNot available.onversion Reagent ANot available.	s171 to banediyl),α- -ω-hydroxy- e-1,2-diol, ylated171 to 235339.8 to 455199 to 238w-hydroxy- e-1,2-diol, ylated235to 455238ase-Free WaterNot available. rep BufferNot available. vailable.rep BufferNot available. n BufferNot available. vailable.n BufferNot available. vailable.n EnzymeNot available. vailable.ockerNot available. Not available.ufferNot available. vailable.nhancerNot available. Not available.onversion Reagent ANot available.	s171 to hanediyl),α- -ω-hydroxy- e-1,2-diol, ylated171 to 235339.8 to 455-199 to 238390.2 to 460.4ase-Free Water rep BufferNot available. valable.Not availablen Buffer n EnzymeNot available. Not available.Not availablen Buffer n EnzymeNot available. Not availableNot availablen Enzyme ockerNot available. Not available.Not available

Evaporation rate

	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding	Not available.
	5	NUL avaliable.
	Beads	
	5X Soft Conversion Wash	Not available.
	Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	Not available:
		NI. (
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	97-192 for ILM	
Flammability	: Nuclease-Free Water	Not applicable
Fidilinability		Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	Soft Conversion Reagent A	Not applicable.
	2X Methyl Amplification	Not applicable.
	Mastermix	
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Soft Conversion Reagent B	Not applicable.
	Soft Conversion Binding	Not applicable.
	Beads	
	5X Soft Conversion Wash	Not applicable.
	Buffer	Not applicable.
		Natangliaghla
	Soft Conversion Elution	Not applicable.
	Buffer	
	Soft Conversion Repair	Not applicable.
	Solution	
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	97-192 for ILM	Not applicable.
Lower and upper explosion	: Nuclease-Free Water	Not available.
limit/flammability limit	End Prep Buffer	Not available.
· · · · · · · · · · · · · · · · · · ·	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion Reagent A	Not available.
	2X Methyl Amplification	Not available.
	· ·	NUL AVAIIANIE.
	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion Reagent B	Not available.
	Soft Conversion Binding	Not available.

	Beads	
	5X Soft Conversion Wash	Not available.
	Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	97-192 for ILM	
:	Nuclease-Free Water	2.3 kPa (17.5 mm Hg

Vapour pressure

2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

	Vapou	ı <mark>r Pressu</mark>	re at 20°C	Vapo	u <mark>r press</mark> u	ire at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	-
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
tetramethylammonium chloride	0.000000001	0.0000000013	EU A.4	-	-	-
Hyb Enhancer						
Formamide	0.045	0.006	-	-	-	-
		0.0000004				
04/2024 Date of p	previous iss	sue	: 26/02/2024		Version	:1.1 5

Poly(oxy- 1,2-ethanedi hydro-ω-hyd Ethane-1,2-c ethoxylated	roxy-		-	-	-	-
Soft Convei Reagent A	rsion					
tetrahydro- 2-furylmetha	nol	0.19	-	-	-	-
2X Methyl Amplificatic Mastermix	n					
water	17.5	2.3	-	92.258	12.3	-
Library Was Buffer	sh					
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanedi hydro-ω-hyd Ethane-1,2-c ethoxylated	yl),α- roxy-	0.0000004	-	-	-	-
Hyb Wash E 1	Buffer					
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash E 2	Buffer					
water	17.5	2.3	-	92.258	12.3	-
Soft Conve Reagent B	rsion					
water	17.5	2.3	-	92.258	12.3	-
Soft Conver Binding Bea						
Ethanol	42.94865	5.7	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-
5X Soft Conversion Buffer	Wash					
: 08/04/2024	Date of previous iss	sue	: 26/02/2024	ı <u> </u>	Version	:1.1 58/84

characteristics							
	water	17.5	2.3	-	92.258	12.3	-
	Soft Conversion						
	Elution Buffer						
	water	17.5	2.3		92.258	12.3	
	water	17.5	2.5	-	92.200	12.5	-
	Soft Conversion						
	Repair Solution						
	water	17.5	2.3	-	92.258	12.3	-
	Libron, Binding						
	Library Binding Beads						
	Deaus						
	water	17.5	2.3	-	92.258	12.3	_
	Poly(oxy-	0.000003	0.00000004	-	-	-	-
	1,2-ethanediyl),α-						
	hydro-ω-hydroxy-						
	Ethane-1,2-diol,						
	ethoxylated						
	Capture Beads						
	water	17.5	2.3	_	92.258	12.3	
	water	17.5	2.5	-	92.230	12.5	-
	Avida Index						
	Primer Pairs						
	97-192 for ILM						
	water	17.5	2.3	-	92.258	12.3	-
Relative vapour density :	Nuclease-Free Wate	r	0.62 [Air	= 1]			1
	End Prep Buffer		Not avail				
	End Prep Enzyme		Not avail				
	Ligation Buffer		Not avail	able.			
	Ligation Enzyme		Not avail				
	Adapter for ILM		Not avail				
	Hyb Blocker		Not avail				
	Hyb Buffer		Not avail				
	Hyb Enhancer		Not avail				
	Soft Conversion Rea		Not avail Not avail				
	2X Methyl Amplificati Mastermix		NUL avall	aule.			
	Library Wash Buffer		Not avail	ahle			
	Hyb Wash Buffer 1		Not avail				
	Hyb Wash Buffer 2		Not avail				
	Soft Conversion Rea	gent B	Not avail				
	Soft Conversion Bind		Not avail				
	Beads	U					
	5X Soft Conversion \	Nash	Not avail	able.			
	Buffer						
	Soft Conversion Elut	ion	Not avail	able.			
	Buffer						
	Soft Conversion Rep	air	Not avail	able.			
	Solution	L.	NI. 4				
	Library Binding Bead	IS	Not avail				
	Capture Beads		Not avail	apie.			

	Avida Index Primer Pairs 97-192 for ILM	Not availab	le.
Relative density :	Nuclease-Free Water	1	
	End Prep Buffer	Not availab	le.
	End Prep Enzyme	Not availab	le.
	Ligation Buffer	Not availab	
	Ligation Enzyme	Not availab	
	Adapter for ILM	Not availab	
	Hyb Blocker	Not availab	
	Hyb Buffer	Not availab	
	Hyb Enhancer	Not availab	
	Soft Conversion Reagent A	Not availabl	
	2X Methyl Amplification	Not availab	ie.
	Mastermix	N 1 - 4 11 - 1 - 1	
	Library Wash Buffer	Not availab	
	Hyb Wash Buffer 1	Not availab	
	Hyb Wash Buffer 2	Not availab	
	Soft Conversion Reagent B	Not availab	
	Soft Conversion Binding Beads	Not availab	le.
	5X Soft Conversion Wash	Not ovoilabl	
	Buffer	Not availab	le.
	Soft Conversion Elution	Not availab	le.
	Buffer		
	Soft Conversion Repair	Not availab	le.
	Solution		
	Library Binding Beads	Not availab	le.
	Capture Beads	Not availab	le.
	Avida Index Primer Pairs	Not availab	le.
	97-192 for ILM		
Solubility(ies) :	Media		Result
	Nuclease-Free Water		
	water		Soluble
	water		Soluble
	water End Prep Buffer		
	water End Prep Buffer water		Soluble Soluble
	water End Prep Buffer water End Prep Enzyme		Soluble
	water End Prep Buffer water End Prep Enzyme water		
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer		Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water		Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme		Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water		Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM		Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water		Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker		Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water		Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Buffer		Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Buffer water		Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Buffer water Hyb Enhancer		Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Buffer water Hyb Enhancer water		Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A		Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water		Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water 2X Methyl Amplification Ma	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water 2X Methyl Amplification Ma	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water Library Wash Buffer	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water Library Wash Buffer water	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Hyb Enhancer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water Library Wash Buffer water Hyb Wash Buffer 1	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water Library Wash Buffer water Hyb Wash Buffer 1 water Hyb Wash Buffer 2 water	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water Library Wash Buffer water Hyb Wash Buffer 1 water Hyb Wash Buffer 2	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble
Date of issue/Date of revision : 08	water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water Hyb Blocker water Hyb Blocker water Hyb Buffer water Soft Conversion Reagent A water 2X Methyl Amplification Ma water Library Wash Buffer water Hyb Wash Buffer 1 water Hyb Wash Buffer 2 water	stermix	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble

water Soluble Soft Conversion Binding Beads water Soluble SX Soft Conversion Rush Buffer Water Soluble Soft Conversion Repair Solution Water Soluble Soft Conversion Repair Solution Water Soluble Variat Index Primer Pairs 97-192 for ILM water Soluble Partition coefficient: n- octanol/water Nuclease-Free Water -1.38 End Prep Buffer Not applicable. Soluble Ligation Enzyme Adaptor for ILM Water Not applicable. Ligation Enzyme Adaptor for ILM Water Not applicable. Soft Conversion Reagert A Not applicable. Not applicable. Hyb Buffer Hyb Buffer Soft Conversion Reagert A Not applicable. Not applicable. Hyb Wath Buffer Hyb Wath Buffer 2 Not applicable. Not applicable. Hyb Wath Buffer 2 Hyb Wath Buffer 2 Not applicable. Not applicable. Hyb Wath Buffer 1 Hyb Wath Buffer 2 Soft Conversion Reagert 8 Not applicable. Auto-ignition temperature : Nuclease-Free Water Soft Conversion Reagert 8 Not applicable. Auto-ignition temperature : Nuclease-Free Water Soft Conversion Reapair So	characteristics					
Partition coefficient: n- octanol/water Soluble Soluble Partition coefficient: n- octanol/water				Soluble		_
water Soluble Soft Conversion Runner Soluble Water Soluble Soft Conversion Repair Solution Soluble Water Soluble Water Soluble Water Soluble Water Soluble Partition coefficient: n- I.M. Gasse-Free Water -1.38 Capture Beads Soluble Water Soluble Partition coefficient: n- I.M. Gasse-Free Water -1.38 Cataool/water I.N. Gasse-Free Water -1.38 End Prep Buffer Not applicable. Soluble Ligation Buffer Not applicable. Hyb BioColer Hyb BioColer Not applicable. Hyb BioColer Hyb Buffer Not applicable. Hyb BioColer Soft Conversion Reagent A Not applicable. Hyb BioColer Soft Conversion Reagent B Not applicable. Hyb Wash Buffer 1 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Reagent B Soft Conversion Reagent B Not applicable. Soft Conversion Reagent B Soft Conversion Reagent B Not applicable. Soft Conversion Reagent B Soft Conversion Reagent B		water	ç	Soluble		
Soft Conversion Repair Solution water Soluble Value Soluble Partition coefficient: n- Soluble Capture Beads Not applicable. Ligation Enzyme Not applicable. Ligation Enzyme Not applicable. Hyb Bicker Not applicable. Soft Conversion Regarn N Not applicable. Soft Conversion Regarn N Not applicable. Soft Conversion Regarn N Not applica				Soluble		
Soft Conversion Repair Solution water Soluble Ubrary Binding Beads water Soluble Partition coefficient: n- octanol/water : Nuclease-Free Water -1,38 Partition coefficient: n- octanol/water : Nuclease-Free Water -1,38 End Prep Buffer Not applicable. End Prep Buffer Not applicable. Ligation Enzyme Not applicable. Hyb BioCker Not applicable. Hyb BioCker Not applicable. Hyb BioCker Not applicable. YM Buffer Not applicable. Hyb BioCker Not applicable. Hyb BioCker Not applicable. Hyb BioCker Not applicable. Soft Conversion Reagent A Not applicable. Hyb Wash Buffer 1 Not applicable. Buffer Soft Conversion Reagent B Soft Conversion Reagent B Not applicable. Buffer Soft Conversion Repair Not applicable. Soft Conversion Repair		Soft Conversion Elution Bu	uffer			
water Soluble Library Binding Beads water Soluble Capture Beads water Soluble Avida Index Primer Pairs 97-192 for ILM Soluble Partition coefficient: n- octanol/water Not applicable. Soluble -1.38 End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Buffer Not applicable. Hyb Enzyme Not applicable. Hyb Ender Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Hyb Wash Buffer Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable. Soft Conversion Reagent Not applicable.				Soluble		
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Capture Beads water Soluble Partition coefficient: n- octanol/water : Nuclease-Free Water I.M -1.38 Partition coefficient: n- octanol/water : Nuclease-Free Water End Prep Buffer Not applicable. -1.38 End Prep Eurgre End Prep Eurgre Not applicable. Not applicable. Ligation Enzyme Not applicable. Not applicable. Hyb Biocker Hyb Diocker Not applicable. Soft Conversion Reagent A Not applicable. Not applicable. Wash Buffer Hyb Buffer Not applicable. Not applicable. Not applicable. Soft Conversion Reagent A Not applicable. Not applicable. Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Soft Conversion Binding Not applicable. Not applicable. Soft Conversion Reagent B Soft Conversion Binding Bads Not applicable. Soft Conversion Repair Soft Conversion Repair Not applicable. Not applicable. Soft Conversion Repair Soft Conversion Repair Soft Conversion Repair Soft Conversion Repair Not applicable. Not applicable. Auto-ignition temperature : Nuclease-Free Water 2X Methyl Amplification 215°C (419°F): Auto-ignition temperature : Nuclease-Free Water 2X Methyl Amplification 215°C (419°F): Mastermix : Ingredient name Cipcerol 'Soft On Softon Soft On Conversion Buffer			s	Soluble		
Avida Index Primer Pairs 97-192 for LMM Soluble Partition coefficient: n- octanol/water : Nuclease-Free Water -1.38 End Prep Buffer Not applicable.		Capture Beads				
Partition coefficient: n- octanol/water Soluble Partition coefficient: n- octanol/water : Nuclease-Free Water -1.38 End Prep Enzyme Not applicable.				Soluble		
Partition coefficient: n- octanol/water Nuclease-Free Water -1.38 Partition coefficient: n- octanol/water Nuclease-Free Water -1.38 End Prep Buffer Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Buffer Not applicable. Hyb Buffer Not applicable. Soft Conversion Reagent A Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Reagent B Not applicable. Hyb Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 1 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Repair Not applicable. Soft Conversion Repair Not applicable. <tr< th=""><th></th><th></th><th>1-132 101</th><th></th><th></th><th></th></tr<>			1-132 101			
octanol/water End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Bicker Not applicable. Hyb Wash Buffer Not applicable. Nydashermix Not applicable. Library Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Reage				Soluble		
End Preb Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Buffer Not applicable. Adapter for ILM Not applicable. Hyb Buffer Not applicable. Soft Conversion Reagent A Not applicable. ZX Methyl Amplification Not applicable. Mastermix Library Wash Buffer 1 Not applicable. Library Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Soft Conversion Reagent B Soft Conversion Binding Not applicable. Soft Conversion Reagent B Soft Conversion Binding Not applicable. Soft Conversion Repair Soft Conversion Repair Not applicable. Soft Conversion Repair Soft Conversion Repair Not applicable. Soft applicable. Soft C	Partition coefficient: n-	Nuclease-Free Water	-1.38			
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Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. Axto applicable. Not applicable. Axto applicable. Not applicable. Axto applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Not applicable. Buffer Soft Conversion Repair Soft Conversion Repair Not applicable. Auto-ignition temperature Ingredient name						
Hyb Buffer Not applicable. Not applicable. Not applicable. Soft Conversion Reagent A Not applicable. Not applicable. 2X Methyl Amplification Mastermix Not applicable. Not applicable. Library Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads Not applicable. Soft Conversion Blution Buffer Not applicable. Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Auto-Ignition temperature Nuclease-Free Water Not applicable. ZX Methyl Amplification <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. Ax Methyl Amplification Not applicable. Mastermix Not applicable. Library Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Not applicable. Beads Soft Conversion Binding Soft Conversion Repair Not applicable. Soft Conversion Repair Not applicable. Buffer Soft Conversion Repair Soft Conversion Repair Not applicable. Yora pplicable. Soft Conversion Repair Not applicable. Yot		<i>.</i>				
Soft Conversion Reagent A 2X Methyl Amplification Mastermix Not applicable. Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Not applicable. Soft Conversion Reagent B Soft Conversion Binding Beads Not applicable. SX Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Repair Not applicable. Soft Conversion Repair Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Solution Library Binding Beads Not applicable. Auto-ignition temperature : Not applicable. ? Nuclease-Free Water 2X Methyl Amplification 215°C (419°F) Not applicable. Auto-ignition temperature : Not applicable. ? Nuclease-Free Water 2X Methyl Amplification 215°C (419°F) Not applicable. Ingredient name °C °F Giycerol 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),a- hydro-w-hydroxy-Ethane- 1,2-diol, ethoxylated 360 680 -						
2X Methyl Amplification Not applicable. Mastermix Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Not applicable. Soft Conversion Regent B Not applicable. Soft Conversion Binding Not applicable. Buffer Soft Conversion Elution Soft Conversion Repair Not applicable. Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Auto-ignition temperature : Nuclease-Free Water Not applicable. 97-192 for ILM Not applicable. 215°C (419°F) Mastermix Ingredient name °C °F Ingredient name °C °F Method End Prep Enzyme 370 698 - Giycerol 370 698 - Ligation Buffer 360 6						
Mastermix Not applicable. Library Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Not applicable. Beads Soft Conversion Wash Buffer Soft Conversion Reagent B Soft Conversion Reader B Not applicable. Buffer Soft Conversion Repair Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Avida Index Primer Pairs Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM Not applicable. Auto-ignition temperature : Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C (419°F) Mastermix Ingredient name °C °F Glycerol 370 698 - Ligation Buffer <						
Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Not applicable. Beads 5X Soft Conversion Wash Soft Conversion Reagent B Not applicable. Buffer Soft Conversion Repair Soft Conversion Repair Not applicable. Soft Interve Beads Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM 215°C (419°F) Mastermix Ingredient name °C °F Ingredient name °C °F Method End Prep Enzyme 370 698 - Glycerol 370 698 - Ligation Buffer 360 680 - Poly(oxy-1,2-ethanediyl),		Mastermix				
Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads Not applicable. Soft Conversion Binding Beads Not applicable. Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Avida Index Primer Pairs 97-192 for ILM Not applicable. Auto-ignition temperature : Nuclease-Free Water 2X Methyl Amplification Mastermix Not applicable. Ingredient name °C °F Glycerol 370 698 Ligation Buffer 360 680 Poly(oxy-1,2-ethanediyl),α- hydro-u-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680						
Soft Conversion Reagent B Soft Conversion Binding Beads Not applicable. Not applicable. SX Soft Conversion Wash Buffer Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Soft Conversion Repair Not applicable. Soft Conversion Repair Not applicable. Soft Conversion Soft Conversion Repair Not applicable. Soft Conversion Soft Library Binding Beads Not applicable. Soft Conversion Soft Conversion Repair Not applicable. Soft Conversion Soft Conversion Repair Not applicable. Soft Conversion Soft Conversin Soft Conversion Soft Conversin Soft Conver						
Soft Conversion Binding Beads Not applicable. SX Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Not applicable. Solution Not applicable. Library Binding Beads Not applicable. Avida Index Primer Pairs 97-192 for ILM Not applicable. Auto-ignition temperature Nuclease-Free Water 2X Methyl Amplification 215°C (419°F) Mastermix Ingredient name °C °F Ingredient name °C °F Method End Prep Enzyme 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -						
5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs 97-192 for ILM Not applicable. Auto-ignition temperature Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C (419°F) Mastermix Ingredient name °C °F Glycerol 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -		Soft Conversion Binding				
Soft Conversion Elution Not applicable. Buffer Soft Conversion Repair Not applicable. Solt Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Library Binding Beads Not applicable. Avida Index Primer Pairs Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM Not applicable. Auto-ignition temperature : Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C (419°F) Mastermix Ingredient name °C Ingredient name °C °F Glycerol 370 698 Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 360 680 - - -		5X Soft Conversion Wash	Not applicat	ole.		
Solution Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM Not applicable. Auto-ignition temperature : Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C (419°F) Mastermix Ingredient name °C Ingredient name °C °F Method End Prep Enzyme 370 Glycerol 370 698 Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 360 680				ole.		
Capture Beads Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM Not applicable. Auto-ignition temperature Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C (419°F) Mastermix Ingredient name °C °F End Prep Enzyme Glycerol 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),α- 360 680 - Nydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -			Not applicat	ole.		
Avida Index Primer Pairs 97-192 for ILM Not applicable. 97-192 for ILM Auto-ignition temperature : Nuclease-Free Water 2X Methyl Amplification Mastermix Not applicable. 215°C (419°F) Ingredient name °C °F Method End Prep Enzyme 370 698 - Glycerol 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -		Library Binding Beads				
Auto-ignition temperature 97-192 for ILM Auto-ignition temperature Nuclease-Free Water 2X Methyl Amplification Mastermix Not applicable. 215°C (419°F) Ingredient name °C °F Method End Prep Enzyme Glycerol 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -						
2X Methyl Amplification Mastermix 215°C (419°F) Ingredient name °C °F Method End Prep Enzyme 370 698 - Glycerol 370 698 - Ligation Buffer Poly(oxy-1,2-ethanediyl),α- 360 680 - hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -			Not applicat	ole.		
2X Methyl Amplification Mastermix 215°C (419°F) Ingredient name °C °F Method End Prep Enzyme 370 698 - Glycerol 370 698 - Ligation Buffer 860 680 - Poly(oxy-1,2-ethanediyl),α- 360 680 - hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated 360 680 -	Auto-ignition temperature :	Nuclease-Free Water	Not applicat	ole.		
End Prep Enzyme370698Glycerol370698Ligation Buffer680Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated360	.					
Glycerol370698-Ligation Buffer698-Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated360680-		Ingredient name	°C	°F	Method	
Ligation BufferPoly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated360680-		End Prep Enzyme				
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated		Glycerol	370	698	-	
hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated		Ligation Buffer				
Ligation Enzyme		hydro-ω-hydroxy- Ethane-	360	680	-	
		1,2-diol, ethoxylated				

	1			•
	Glycerol	370	698	-
	Hyb Enhancer			
	Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	360	680	-
	Formamide	>500	>932	ASTM D 2155-66
	Soft Conversion Reagent A			
	tetrahydro-2-furylmethanol	282	539.6	-
	Library Wash Buffer			
	Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	360	680	-
	Soft Conversion Binding Beads			
	Ethanol	455	851	DIN 51794
	Library Binding Beads			
	Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	360	680	-
Decomposition temperature :	End Prep BufferEnd Prep EnzymeLigation BufferLigation EnzymeAdapter for ILMHyb BlockerHyb BlockerHyb BufferHyb EnhancerSoft Conversion Reagent A2X Methyl AmplificationMastermixLibrary Wash BufferHyb Wash Buffer 1Hyb Wash Buffer 2Soft Conversion Reagent BSoft Conversion Reagent BSoft Conversion BindingBeads5X Soft Conversion BindingBufferSoft Conversion RepairSoft Conversion RepairSoft Conversion RepairSolutionLibrary Binding BeadsCapture Beads	Not available. Not available.		

		97-192 for ILM	
Viscosity		Nuclease-Free Water	Not available.
locolly	1	End Prep Buffer	Not available.
		End Prep Enzyme	Not available.
		Ligation Buffer	Not available.
		Ligation Enzyme	Not available.
		Adapter for ILM	Not available.
		Hyb Blocker	Not available.
		Hyb Buffer	Not available.
		Hyb Enhancer	Not available.
		Soft Conversion Reagent A	Not available.
		2X Methyl Amplification	Not available.
		Mastermix	
		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Soft Conversion Reagent B	Not available.
		Soft Conversion Binding	Not available.
		Beads	
		5X Soft Conversion Wash	Not available.
		Buffer	
		Soft Conversion Elution	Not available.
		Buffer	
		Soft Conversion Repair	Not available.
		Solution	
		Library Binding Beads	Not available.
		Capture Beads	Not available.
		Avida Index Primer Pairs	Not available.
		97-192 for ILM	
Particle characteristics			
Median particle size	:	Nuclease-Free Water	Not applicable.
		End Prep Buffer	Not applicable.
		End Prep Enzyme	Not applicable.
		Ligation Buffer	Not applicable.
		Ligation Enzyme	Not applicable.
		Adapter for ILM	Not applicable.
		Hyb Blocker	Not applicable.
		Hyb Buffer	Not applicable.
		Hyb Enhancer	Not applicable.
		Soft Conversion Reagent A	Not applicable.
		2X Methyl Amplification	Not applicable.
		Mastermix	
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
		Soft Conversion Reagent B	Not applicable.
		Soft Conversion Binding Beads	Not applicable.
		5X Soft Conversion Wash	Not applicable.
		Buffer	Not applicable.
		Soft Conversion Elution	Not applicable.
		Buffer	
		Soft Conversion Repair	Not applicable.
		Solution	
		Library Binding Beads	Not applicable.
		Capture Beads	Not applicable.
		Avida Index Primer Pairs	Not applicable.
		97-192 for ILM	

Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available for
	End Drop Buffor	this product or its ingredients.
	End Prep Buffer	No specific test data related to reactivity available for this product or its ingredients.
	End Prep Enzyme	No specific test data related to reactivity available for
		this product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for
		this product or its ingredients.
	Ligation Enzyme	No specific test data related to reactivity available for
	5 ,	this product or its ingredients.
	Adapter for ILM	No specific test data related to reactivity available for
	·	this product or its ingredients.
	Hyb Blocker	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Buffer	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Enhancer	No specific test data related to reactivity available for
		this product or its ingredients.
	Soft Conversion Reagent A	No specific test data related to reactivity available for
		this product or its ingredients.
	2X Methyl Amplification	No specific test data related to reactivity available for
	Mastermix	this product or its ingredients.
	Library Wash Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Hyb Wash Buffer 1	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Wash Buffer 2	No specific test data related to reactivity available for
		this product or its ingredients.
	Soft Conversion Reagent B	No specific test data related to reactivity available for
	gg	this product or its ingredients.
	Soft Conversion Binding	No specific test data related to reactivity available for
	Beads	this product or its ingredients.
	5X Soft Conversion Wash	No specific test data related to reactivity available for
	Buffer	this product or its ingredients.
	Soft Conversion Elution	No specific test data related to reactivity available for
	Buffer	this product or its ingredients.
	Soft Conversion Repair	No specific test data related to reactivity available for
	Solution	this product or its ingredients.
	Library Binding Beads	No specific test data related to reactivity available for
		this product or its ingredients.
	Capture Beads	No specific test data related to reactivity available for
	Avida Index Primer Pairs	this product or its ingredients. No specific test data related to reactivity available for
	97-192 for ILM	this product or its ingredients.
		The second section of the
Chemical stability	: Nuclease-Free Water	The product is stable.
	End Prep Buffer	The product is stable. The product is stable.
	End Prep Enzyme Ligation Buffer	The product is stable.
	Ligation Enzyme	The product is stable.
	Adapter for ILM	The product is stable.
	Hyb Blocker	The product is stable.
	Hyb Buffer	The product is stable.
	Hyb Enhancer	The product is stable.
	Soft Conversion Reagent A	The product is stable.
	2X Methyl Amplification	The product is stable.
	Mastermix	•
	Library Wash Buffer	The product is stable.
	Hyb Wash Buffer 1	The product is stable.
	Hyb Wash Buffer 2	The product is stable.
	Soft Conversion Reagent B	The product is stable.
	Soft Conversion Binding	The product is stable.

	Beads 5X Soft Conversion Wash	The product is stable.
	Buffer Soft Conversion Elution	The product is stable.
	Buffer Soft Conversion Repair Solution	The product is stable.
	Library Binding Beads	The product is stable.
	Capture Beads	The product is stable.
	Avida Index Primer Pairs 97-192 for ILM	The product is stable.
Possibility of hazardous reactions	: Nuclease-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
reactions	End Prep Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	End Prep Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ligation Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adapter for ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Blocker	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Enhancer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion Reagent A	hazardous reactions will not occur.
	2X Methyl Amplification	Under normal conditions of storage and use,
	Mastermix	hazardous reactions will not occur.
	Library Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Hyb Wash Buffer 1	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Hyb Wash Buffer 2	Under normal conditions of storage and use,
	,	hazardous reactions will not occur.
	Soft Conversion Reagent B	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion Binding Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
	5X Soft Conversion Wash Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion Elution Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Soft Conversion Repair	Under normal conditions of storage and use,
	Solution Library Binding Beads	hazardous reactions will not occur. Under normal conditions of storage and use,
	Capture Beads	hazardous reactions will not occur. Under normal conditions of storage and use,
	Avida Index Primer Pairs 97-192 for ILM	hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

65/84

	ana roadinity	
Conditions to avoid :	Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	No specific data.
	Soft Conversion Reagent A	Avoid all possible sources of ignition (spark or flame).
		Do not pressurise, cut, weld, braze, solder, drill, grind
		or expose containers to heat or sources of ignition.
	2X Methyl Amplification Mastermix	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding	Avoid all possible sources of ignition (spark or flame).
	Beads	Do not pressurise, cut, weld, braze, solder, drill, grind
	Deads	or expose containers to heat or sources of ignition.
	5X Soft Conversion Wash	No specific data.
	Buffer	
	Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	97-192 for ILM	
Incompatible materiale	Nuclease-Free Water	May react or be incompatible with avidiaing materials
Incompatible materials :	End Prep Buffer	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
	End Prep Enzyme	May react or be incompatible with oxidising materials.
	Ligation Buffer	May react or be incompatible with oxidising materials.
	Ligation Enzyme	May react or be incompatible with oxidising materials.
	Adapter for ILM	May react or be incompatible with oxidising materials.
	Hyb Blocker	May react or be incompatible with oxidising materials.
	Hyb Buffer	May react or be incompatible with oxidising materials.
	Hyb Enhancer	May react or be incompatible with oxidising materials.
	Soft Conversion Reagent A	Reactive or incompatible with the following materials:
	gg	oxidising materials
	2X Methyl Amplification	May react or be incompatible with oxidising materials.
	Mastermix	
	Library Wash Buffer	May react or be incompatible with oxidising materials.
	Hyb Wash Buffer 1	May react or be incompatible with oxidising materials.
	Hyb Wash Buffer 2	May react or be incompatible with oxidising materials.
	Soft Conversion Reagent B	May react or be incompatible with oxidising materials.
	Soft Conversion Binding Beads	Reactive or incompatible with the following materials:
	2:340	oxidising materials
	5X Soft Conversion Wash	May react or be incompatible with oxidising materials.
	Buffer	
	Soft Conversion Elution Buffer	Reactive or incompatible with the following materials:
		acids
	Soft Conversion Repair Solution	May react or be incompatible with oxidising materials.
	Library Binding Beads	May react or be incompatible with oxidising materials.
	Capture Beads	May react or be incompatible with oxidising materials.
	Avida Index Primer Pairs	May react or be incompatible with oxidising materials.

	97-192 for ILM	
Hazardous decomposition products	: Nuclease-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	End Prep Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	End Prep Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ligation Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Adapter for ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Blocker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Enhancer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion Reagent A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	2X Methyl Amplification Mastermix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Library Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion Reagent B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion Binding Beads	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	5X Soft Conversion Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion Elution Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Soft Conversion Repair Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Library Binding Beads	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Capture Beads	Under normal conditions of storage and use, hazardous decomposition products should not be

Avida Index Primer Pairs 97-192 for ILM produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
End Prep Buffer Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
End Prep Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Buffer				
tetramethylammonium	LD50 Dermal	Rabbit - Male,	200 to 500 mg/	-
chloride	LD50 Oral	Female Rat	kg 50 mg/kg	
		Nat	50 mg/kg	-
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists LD50 Dermal	Rat - Male Rabbit	>21 mg/l 17 g/kg	4 hours
	LD50 Oral	Rat	5570 mg/kg	-
Soft Conversion Binding Beads				
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
Cuanidinium this even ato	LD50 Oral LC50 Inhalation Dusts and mists	Rat Rat - Female	7 g/kg 3.181 mg/l	- 4 hours
Guanidinium thiocyanate	LD50 Oral	Rat - Male,	593 mg/kg	-
		Female		
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
pnenyijomeganydroxy-				

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Ligation Buffer					
Poly(oxy-1,2-ethanediyl),α- nydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
, , , ,	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ligation Enzyme					
te of issue/Date of revision	: 08/04/2024 Date of J	previous issue	: 26/02/2024	Vers	ion :1.1 68

Section 11. Toxico			I	1	ſ
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Hyb Enhancer					
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
· · · ·	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Soft Conversion Reagent					
tetrahydro-2-furylmethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Library Wash Buffer					
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Soft Conversion Binding					
Beads Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit	-	mg 0.066666667 minutes 100	-
	Even Mederate irritent	Dabbit		mg	
Poly(oxy-1,2-ethanediyl), .	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	-	100 uL 1 %	-
alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
Library Binding Beads Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit		500 mg	_
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitisation

Not available.

Date of issue/Date of revision	: 08/04/2024	Date
Conclusion/Summary	: Not availabl	e.
Teratogenicity		
Conclusion/Summary	: Not availabl	e.
Reproductive toxicity		
Conclusion/Summary	: Not availabl	e.
Carcinogenicity		
Conclusion/Summary	: Not availabl	e.
Mutagenicity		

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hyb Buffer tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)
Specific target organ toxicity (repeated exp	osure)		
Name	Category	Route of exposure	Target organs
Hyb Enhancer Formamide	Category 2	oral	blood
Aspiration hazard		•	

Not available.

Information on likely routes of exposure	: Nuclease-Free W End Prep Buffer	ater Not available. Routes of entry anticipated: Oral, Dermal, Inhalation,
or expectine		Eyes.
	End Prep Enzyme	•
	Ligation Buffer	Not available.
	Ligation Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Adapter for ILM	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Blocker	Not available.
	Hyb Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Enhancer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Soft Conversion F	Reagent A Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	2X Methyl Amplifi Mastermix	
	Library Wash Buf	fer Not available.
	Hyb Wash Buffer	1 Not available.
	Hyb Wash Buffer	2 Not available.
	Soft Conversion F	Reagent B Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Soft Conversion E Beads	Binding Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	5X Soft Conversion Buffer	
	Soft Conversion E Buffer	
	Soft Conversion F	Repair Routes of entry anticipated: Oral, Dermal, Inhalation,
	Solution	Eyes.
	Library Binding Be Capture Beads	eads Not available. Not available.
	Avida Index Prime 97-192 for ILM	
Potential acute health effects		
Eye contact	: Nuclease-Free W	
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme Adapter for ILM	Causes eye irritation. No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
Date of issue/Date of revision :	08/04/2024 Date	of previous issue : 26/02/2024 Version : 1.1 70/84

	- 9	
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	Causes serious eye irritation.
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	No known significant choole of ontiour nazarde.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	Causes serious eye irritation.
	Soft Conversion Binding	Causes serious eye damage.
	Beads	
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes serious eye damage.
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	No known significant chects of childar hazards.
Inhalation	Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	-	-
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single
		exposure if inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
	Hyb Wash Buffer 1	•
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Corrosive to the respiratory tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution	No known significant effects or critical hazards.
	Buffer Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	-
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Skin contact	Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	•	-
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single
	-	exposure in contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Methyl Amplification	-
		No known significant effects or critical hazards.

	•	
	Mastermix	
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Causes severe burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	Causes severe burns.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	5
Ingestion :	Nuclease-Free Water	No known significant effects or critical hazards.
•	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Harmful if swallowed. Causes damage to organs
		following a single exposure if swallowed.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding	Corrosive to the digestive tract. Causes burns.
	Beads 5X Soft Conversion Wash	No known significant effects or critical hazards.
	Buffer	
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	
Sumptome related to the physi	cal chamical and toxical aris	al abaratariation
Symptoms related to the physi		
Eye contact :	Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	Adverse symptoms may include the following:
		irritation
		watering
	Limitian Doff.	redness
	Ligation Buffer	No specific data.
	Ligation Enzyme	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:

 Date of issue/Date of revision
 : 08/04/2024
 Date of previous issue
 : 26/02/2024
 Version
 : 1.1
 72/84

	····	
		pain or irritation
		watering
		-
		redness
	Hyb Enhancer	No specific data.
	Soft Conversion Reagent A	Adverse symptoms may include the following:
	een een een een kougen v	
		pain or irritation
		watering
		redness
	2X Methyl Amplification	No specific data.
		No specific data.
	Mastermix	
	Library Wash Buffer	No specific data.
	Hyb Ŵash Buffer 1	No specific data.
		•
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	Adverse symptoms may include the following:
		pain or irritation
		watering
		-
		redness
	Soft Conversion Binding	Adverse symptoms may include the following:
	Beads	
	Doddo	nain
		pain
		watering
		redness
	5X Soft Conversion Wash	No specific data.
	Buffer	
	Soft Conversion Elution	Adverse symptoms may include the following:
	Buffer	
	Danor	nain
		pain
		watering
		redness
	Soft Conversion Repair	No specific data.
	· · · · · · · · · · · · · · · · · · ·	
	Solution	
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
		No specific data.
	97-192 for ILM	
Inhalation	: Nuclease-Free Water	No specific data.
initialition	End Prep Buffer	
	•	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	•	•
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	Soft Conversion Descript	
	Soft Conversion Reagent A	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Methyl Amplification	No specific data.
	Mastermix	
	Library Wash Buffer	No specific data.
	-	•
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	•	•
	Soft Conversion Binding	Adverse symptoms may include the following:
	Beads	
		respiratory tract irritation
		coughing
	5X Soft Conversion Wash	No specific data.
	Buffer	
	Banor	
Date of issue/Date of revision	: 08/04/2024 Date of previous is	ssue : 26/02/2024 Version : 1.1
	-	

73/84

	Sylcar mormation	
	Soft Conversion Elution Buffer	No specific data.
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 97-192 for ILM	No specific data.
Skin contact :	Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following: irritation
	Web Enhancer	redness
	Hyb Enhancer	Adverse symptoms may include the following: reduced foetal weight
		increase in foetal deaths skeletal malformations
	Soft Conversion Boogont A	
	Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	2X Methyl Amplification	No specific data.
	Mastermix	
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Soft Conversion Reagent B	No specific data.
	Soft Conversion Binding Beads	Adverse symptoms may include the following:
		pain or irritation
		redness
	EX Soft Conversion Week	blistering may occur
	5X Soft Conversion Wash Buffer	No specific data.
	Soft Conversion Elution Buffer	Adverse symptoms may include the following:
		pain or irritation
		redness
		blistering may occur
	Soft Conversion Repair Solution	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 97-192 for ILM	No specific data.
Ingestion :	Nuclease-Free Water	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations

Date of issue/Date of revision

:08/04/2024

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Soft Conversion Reagent A	Adverse symptoms may include the following: reduced foetal weight
	increase in foetal deaths
	skeletal malformations
2X Methyl Amplification Mastermix	No specific data.
Library Wash Buffer	No specific data.
Hyb Wash Buffer 1	No specific data.
Hyb Wash Buffer 2	No specific data.
Soft Conversion Reagent B	No specific data.
Soft Conversion Binding Beads	Adverse symptoms may include the following:
	stomach pains
5X Soft Conversion Wash Buffer	No specific data.
Soft Conversion Elution Buffer	Adverse symptoms may include the following:
	stomach pains
Soft Conversion Repair Solution	No specific data.
Library Binding Beads	No specific data.
Capture Beads	No specific data.
Avida Index Primer Pairs 97-192 for ILM	No specific data.

ts as well as chronic effects fro	om short and long-term exposure
: Not available.	
: Not available.	
: Not available.	
: Not available.	
<u>ects</u>	
 Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair 	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Solution	NO KHOWH SIGNIFICATE CHECES OF CHECA HAZARUS.
	 Not available. Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair

	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	
Consistent state		No known cignificant offects or critical becards
Carcinogenicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
		•
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	Suspected of causing cancer. Risk of cancer
		depends on duration and level of exposure.
	Soft Conversion Reagent A	No known significant effects or critical hazards.
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Ŵash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
		5
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding	No known significant effects or critical hazards.
	Beads	
	5X Soft Conversion Wash	No known significant effects or critical hazards.
	Buffer	
	Soft Conversion Elution	No known significant effects or critical hazards.
	Buffer	5
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	No known significant enects of childa hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	•	
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	•	
Mutagenicity	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
Mutagenicity	Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water End Prep Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	Avida Index Primer Pairs 97-192 for ILM : Nuclease-Free Water End Prep Buffer End Prep Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	 Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads 	No known significant effects or critical hazards. No known significant effects or critical hazards.

Reproductive toxicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	May damage fertility or the unborn child.
	Soft Conversion Reagent A	May damage fertility or the unborn child.
	2X Methyl Amplification	No known significant effects or critical hazards.
	Mastermix	C C
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding	No known significant effects or critical hazards.
	Beads	-
	5X Soft Conversion Wash	No known significant effects or critical hazards.
	Buffer	-
	Soft Conversion Elution	No known significant effects or critical hazards.
	Buffer	-
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	-

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
End Prep Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Buffer					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-	28000	N/A	N/A	N/A	N/A
Ethane-1,2-diol, ethoxylated					
Ligation Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer					
Hyb Buffer	456.2	2737.2	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A
Hyb Enhancer					
Formamide	5570	17000	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-	28000	N/A	N/A	N/A	N/A
Ethane-1,2-diol, ethoxylated					
Library Wash Buffer					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-	28000	N/A	N/A	N/A	N/A
Ethane-1,2-diol, ethoxylated					
ate of issue/Date of revision : 08/04/2024 Da	te of previous issue	l • • 26/0)2/2024	Version	 <i>:1.1 77/8</i>

2299.0	5782.2	N/A	N/A	16.7
7000	N/A	N/A	124.7	N/A
593	1100	N/A	N/A	3.181
500	N/A	N/A	N/A	N/A
28000	N/A	N/A	N/A	N/A
	7000 593 500	7000 N/A 593 1100 500 N/A	7000 N/A N/A 593 1100 N/A 500 N/A N/A	7000 N/A N/A 124.7 593 1100 N/A N/A 500 N/A N/A N/A

Other information

: End Prep Buffer

Adverse symptoms may include the following: May cause skin sensitisation. Adverse symptoms may include the following: May

Adapter for ILM

Hyb Enhancer

cause skin sensitisation. Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation.

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
End Prep Buffer			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - <i>Eudiaptomus</i> padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna</i> aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
End Prep Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
1,2-diol, ethoxylated	Acute LC50 >1000000 µg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
Ligation Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Buffer			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Hyb Enhancer			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Date of issue/Date of revision	: 08/04/2024 Date of previous issue	: 26/02/2024 Version	:1.1 78/84

	gical information		
1,2-diol, ethoxylated	Acute LC50 >1000000 μg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
Soft Conversion Reagent A tetrahydro-2-furylmethanol	Acute EC50 >98.9 mg/l Acute EC50 >91.7 mg/l Acute LC50 >101 mg/l	Algae Daphnia - <i>Daphnia magna</i> Fish	72 hours 48 hours 96 hours
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
·,,	Acute LC50 >1000000 μg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
Soft Conversion Binding Beads			
Ethanol	Acute EC50 3306 mg/l Marine water Acute EC50 1074 mg/l Fresh water	Algae - <i>Ulva pertusa</i> Crustaceans - Cypris subglobosa	96 hours 48 hours
	Acute EC50 2 mg/l Fresh water Acute LC50 11000000 μg/l Marine water	Daphnia - <i>Daphnia magna</i> Fish - <i>Alburnus alburnus</i>	48 hours 96 hours
	Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water	Algae - <i>Ulva pertusa</i> Daphnia - <i>Daphnia magna</i> - Neonate	96 hours 21 days
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus</i> <i>montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water Acute LC50 7200 μg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours
Library Binding Beads Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
. , ,	Acute LC50 >1000000 μg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Date of issue/Date of revision	: 08/04/2024 D	hate of previous issue : 26/02	/2024	Version : 1.1 79/8

Section 12. Ecolog	gical inform	nation			
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away	99 % - Readily - 28	days	-	-
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Test OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days		4 mg/l	-
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-	92 % - Readily - 28	days	-	-
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days		4 mg/l	-
Soft Conversion Binding					
Beads Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28	days	-	-
Library Binding Beads Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily -	28 days	4 mg/l	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Nuclease-Free Water water	-		-		Readily
Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-		-		Readily
Hyb Buffer tetramethylammonium chloride	-		-		Readily
Hyb Enhancer Formamide Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-		-		Readily Readily
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-		-		Readily
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-		-		Readily
Date of issue/Date of revision	08/04/2024	ate of previous issue	: 26/02/2	2024	Version : 1.1 80/84

Soft Conversion Binding Beads Ethanol Guanidinium thiocyanate	-		Readily Inherent
Library Binding Beads Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	_	Low
	1.00		
End Prep Enzyme			
Glycerol	-1.76	-	Low
Ligation Buffer			
Poly(oxy-1,2-ethanediyl),α-	-	3.2	Low
hydro-ω-hydroxy- Ethane-			
1,2-diol, ethoxylated			
Ligation Enzyme			
Glycerol	-1.76	-	Low
Hyb Buffer tetramethylammonium	<-1.6		Low
chloride	~-1.0	-	Low
Hyb Enhancer			
Formamide	-0.82	-	Low
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-	-	3.2	Low
1,2-diol, ethoxylated			
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	0.722	-	Low
Library Wash Buffer			
Poly(oxy-1,2-ethanediyl),α-	-	3.2	Low
hydro-ω-hydroxy- Ethane-			
1,2-diol, ethoxylated			
Soft Conversion Binding			
Beads			
Ethanol	-0.35	0.5	Low
Guanidinium thiocyanate	<-1.7	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[2.7	78.67	Low
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			
Libron, Dinding Doodo			
Library Binding Beads Poly(oxy-1,2-ethanediyl),α-	_	3.2	Low
hydro-ω-hydroxy- Ethane-		0.2	
1,2-diol, ethoxylated			

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADG	IMDG	ΙΑΤΑ
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9	9	9
Packing group	II	II	11
Environmental hazards	No.	No.	No.

Additional information

Remarks: Excepted Quantity		
ADG	:	Hazchem code 2Z
		Special provisions 251, 340
IMDG	4	Emergency schedules F-A, _S-P_
		Special provisions 251, 340
ΙΑΤΑ	:	Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960. Special provisions A44, A163
Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments	:	Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

6, 5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
New Zealand	:	Not determined.
United States	;	Not determined.

Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 08/04/2024
Date of previous issue	: 26/02/2024
Version	: 1.1
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification	Justification
End Prep Buffer LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method
End Prep Enzyme SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
Ligation Enzyme	
Date of issue/Date of revision : 08/04/2024 Date of previo	us issue : 26/02/2024 Version : 1.1 83/84

Section 16. Any other relevant information

Section 16. Any other relevant information		
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method	
Hyb Buffer		
ACUTE TOXICITY (oral) - Category 4	Calculation method	
SKIN CORROSION/IRRITATION - Category 2	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY - SINGLE	Calculation method	
EXPOSURE - Category 1		
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method	
Hyb Enhancer		
CARCINOGENICITY - Category 2	Calculation method	
REPRODUCTIVE TOXICITY - Category 1	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method	
Soft Conversion Reagent A		
FLAMMABLE LIQUIDS - Category 4	On basis of test data	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method	
REPRODUCTIVE TOXICITY - Category 1	Calculation method	
Soft Conversion Reagent B		
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method	
Soft Conversion Binding Beads		
FLAMMABLE LIQUIDS - Category 3	On basis of test data	
SKIN CORROSION/IRRITATION - Category 1C	Calculation method	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method	
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	Calculation method	
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	Calculation method	
2		
Soft Conversion Elution Buffer		
SKIN CORROSION/IRRITATION - Category 1	On basis of test data	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	On basis of test data	
Indicates information that has shanged from providually issued version		

V Indicates information that has changed from previously issued version.

Notice to reader

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