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

SAFETY DATA SHEET

Agilent Technologies

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A

Section 1. Identification

Product identifier	: Avida DNA Reagent Kit with 1-96 Index Pri Number G9418A	mer Pairs for ILM, 96 reactions, Part
Part no. (chemical kit)	: G9418A	
Part no.	: Kvida DNA and Duo Reagent Box 2, 96	5282-0142
i uit no.	reactions	
	Nuclease-Free Water	5271-0134
	Library Wash Buffer	5271-0130
	Hyb Wash Buffer 1	5271-0131
	Hyb Wash Buffer 2	5271-0132
	Resuspension Buffer	5271-0133
	Avida DNA Reagent Box 1, 96 Reactions	<u>5282-0140</u>
	End Prep Buffer	5271-0121
	End Prep Enzyme	5271-0122
	Ligation Buffer	5271-0123
	Ligation Enzyme	5271-0124
	Adapter for ILM	5271-0139
	Hyb Blocker	5271-0126
	Hyb Buffer	5271-0127
	Hyb Enhancer	5271-0128
	2X Amplification Mastermix	5271-0129
	<u>Avida Beads Box, 96 Reactions</u>	<u>5282-0144</u>
	Library Binding Beads	5271-0135
	Capture Beads	5271-0136
	Avida Index Primer Pairs 1 -96 for ILM	<u>5280-0055</u>
	Avida Index Primer Pairs 1-96 for ILM	5274-0079
	 substance or mixture and uses advised a Analytical reagent. For research use only. Nuclease-Free Water 	gainst 5.76 ml (96 reactions)
	Library Wash Buffer	2 x 21.12 ml (96 reactions)
	Hyb Wash Buffer 1	2 x 31.68 ml (96 reactions)
	Hyb Wash Buffer 2	2 x 18.24 ml (96 reactions)
	Resuspension Buffer	2.364 ml (96 reactions)
	End Prep Buffer	0.877 ml (96 reactions)
	End Prep Enzyme	0.351 ml (96 reactions)
	Ligation Buffer	2.96 ml (96 reactions)
	Ligation Enzyme	0.695 ml (96 reactions)
	Adapter for ILM	0.588 ml (96 reactions)
	Hyb Blocker	0.349 ml (96 reactions)
	Hyb Buffer	5.524 ml (96 reactions)
	Hyb Enhancer	0.988 ml (96 reactions)
	2X Amplification Mastermix	2.94 ml (96 reactions)
	Library Binding Beads	10.083 ml (96 reactions)
	Capture Beads	0.944 ml (96 reactions)
	Avida Index Primer Pairs 1-96 for ILM	96 x 0.005 ml
Uses advised against	: Not for use in diagnostic procedures.	
•	0	
Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402	

Date of issue/Date of revision : 11/04/2024 Date of p

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A

Section 1. Identification

Emergency telephone number (with hours of operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substant	<u>ce or mixture</u>		
End Prep Buffer H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
End Prep Enzyme H320	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B		
Ligation Enzyme H320	SERIOUS EYE DAMAGE/EYE	IRRITATION - Category 2B	
Hyb Buffer H302 H315 H370 H412	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Hyb Enhancer H351 H360 H373	CARCINOGENICITY - Category REPRODUCTIVE TOXICITY - (SPECIFIC TARGET ORGAN TO		
	Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%	
	Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.4%	
<u>GHS label elements</u> Hazard pictograms	: Hyb Buffer		
	Hyb Enhancer		
Signal word	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No signal word. No signal word. No signal word. No signal word. No signal word. WARNING No signal word. WARNING No signal word. No signal word. DANGER DANGER No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word.	

Section 2. Hazard(s) identification

	(3)	Identification	
Hazard statements	:	Nuclease-Free Water	No known significant effects or critical hazards.
		Library Wash Buffer	No known significant effects or critical hazards.
		Hyb Wash Buffer 1 Hyb Wash Buffer 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Resuspension Buffer	No known significant effects or critical hazards.
		End Prep Buffer	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	No known significant effects or critical hazards.
		Hyb Blocker	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)
		2X Amplification Mastermix	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.
		1-96 for ILM	
Precautionary statements			
Prevention	1	Nuclease-Free Water	Not applicable.
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
		Resuspension Buffer	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 Hyb Blocker	Not applicable. Not applicable.
		Hyb Buffer	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.
			P260 - Do not breathe vapour.
		2X Amplification Mastermix	Not applicable.
		Library Binding Beads	Not applicable.
		Capture Beads Avida Index Primer Pairs	Not applicable.
		1-96 for ILM	Not applicable.
Response		Nuclease-Free Water	Not applicable.
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
		Resuspension Buffer	Not applicable.
		End Prep Buffer	Not applicable.
		End Prep Enzyme	P305 + P351 + P338 - IF IN EYES: Rinse cautiously
			with water for several minutes. Remove contact
			lenses, if present and easy to do. Continue rinsing.
			P337 + P313 - If eye irritation persists: Get medical
			advice or attention.
Data of issue/Data of revision	. 11		ssue : 23/02/2024 Version : 1.1 3/60

Section 2. Hazard(s) identification

	Ligation Buffer	Not applicable.
	Ligation Enzyme	P305 + P351 + P338 - IF IN EYES: Rinse cautiously
	Ligation Enzymo	with water for several minutes. Remove contact
		lenses, if present and easy to do. Continue rinsing.
		P337 + P313 - If eye irritation persists: Get medical
		advice or attention.
	Adaptar for UN	
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P308 + P311 - IF exposed or concerned: Call a
		POISON CENTER or doctor.
	Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get medical
		advice or attention.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	
Storage :	Nuclease-Free Water	Not applicable.
-totage -	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	••
	•	Not applicable.
	Resuspension Buffer	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.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	····
Disposal :	Nuclease-Free Water	Not applicable
Disposai .		Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	P501 - Dispose of contents and container in
		accordance with all local, regional, national and
		international regulations.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	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
		international regulations.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	
Supplemental label elements		

Section 2. Hazard(s) identification

	-		
Additional warning	1	Nuclease-Free Water	Not applicable.
phrases		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
		Resuspension Buffer	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.
		2X Amplification Mastermix	Not applicable.
		Library Binding Beads	Not applicable.
		Capture Beads	Not applicable.
		Avida Index Primer Pairs	Not applicable.
		1-96 for ILM	
Other hazards which do not	1	Nuclease-Free Water	None known.
result in classification		Library Wash Buffer	None known.
		Hyb Wash Buffer 1	None known.
		Hyb Wash Buffer 2	None known.
		Resuspension Buffer	None known.
		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.
		2X Amplification Mastermix	None known.
		Library Binding Beads	None known.
		Capture Beads	None known.
		Avida Index Primer Pairs	None known.
		1-96 for ILM	

Section 3. Composition and ingredient information

Substance/mixture	: Nuclease-Free Water	Substance
	Library Wash Buffer	Mixture
	Hyb Wash Buffer 1	Mixture
	Hyb Wash Buffer 2	Mixture
	Resuspension Buffer	Mixture
	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
	2X Amplification Mastermix	Mixture
	Library Binding Beads	Mixture
	Capture Beads	Mixture
	Avida Index Primer Pairs	Mixture
	1-96 for ILM	

CAS number/other identifiers

Section 3. Composition and ingredient information

Section 3. Composition and ingredient infor	mation	
Ingredient name	% (w/w)	CAS number
Nuclease-Free Water		
water	100	7732-18-5
Library Wash Buffer		
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
End Prep Buffer		
Magnesium chloride	<2.5	7786-30-3
End Prep Enzyme		
Glycerol	≥30 - ≤60	56-81-5
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
2X Amplification Mastermix		
Glycerol	<10	56-81-5
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.

6/60

Description of necessary f 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 medical attention if irritation occurs.
	Library Wash Buffer	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
		medical attention if irritation occurs.
	Hyb Wash Buffer 2	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.
	Resuspension Buffer	Immediately flush eyes with plenty of water,
	·	occasionally lifting the upper and lower eyelids.
		Check for and remove any contact lenses. Get
	End Dran Buffar	medical attention if irritation occurs.
	End Prep 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.
	End Prep Enzyme	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,
		get medical attention.
	Ligation Buffer	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
		to rinse for at least 10 minutes. If irritation persists,
		get medical attention.
	Adapter 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.
	Hyb Blocker	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.
	Hyb Buffer	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.
		If necessary, call a poison center or physician.
	Hyb Enhancer	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.
	2X Amplification Mastermix	Immediately flush eyes with plenty of water,
		occasionally lifting the upper and lower eyelids.
		Check for and remove any contact lenses. Get
	Library Binding Beads	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
Date of issue/Date of revision		ssue : 23/02/2024 Version : 1.1 7/60

	Capture Beads Avida Index Primer Pairs 1-96 for ILM	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 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 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.
	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.
	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.
	Resuspension Buffer	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 position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Ligation Buffer	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 under medical surveillance for 48 hours.
	Ligation 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 position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Adapter for ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hyb Blocker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

Skin contact

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.
2X Amplification Mastermix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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 attention if symptoms occur.
Avida Index Primer Pairs 1-96 for ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
: Nuclease-Free Water	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 medical attention if symptoms occur.
Hyb Wash Buffer 1	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 medical attention if symptoms occur.
Resuspension Buffer	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

Ingestion

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.
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
2X Amplification Mastermix	before reuse. Flush contaminated skin with plenty of water.
	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Library Binding Beads	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	Flush contaminated skin with plenty of water.
1-96 for ILM	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
 Nuclease-Free Water	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 Wash Buffer	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
Resuspension Buffer	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

10/60

End Prep Buffer	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.
End Prep 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.
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 personnel. Get medical attention if symptoms occur.
Hyb Buffer	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, tie, belt or waistband.
	2X Amplification Mastermix	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.
	Library Binding Beads	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.
	Capture Beads	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.
	Avida Index Primer Pairs 1-96 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.
Most important symptoms/e Potential acute health effe		
Eye contact	 Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM 	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

Ligation Enzyme No known significant effects or critical hazards.	
Adapter for ILMNo known significant effects or critical hazards.Hyb BlockerNo known significant effects or critical hazards.Hyb BufferCauses damage to organs following a single	
exposure if inhaled. Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs Hyb Enhancer No known significant effects or critical hazards. No known significant effects or critical hazards.	
1-96 for ILMSkin contact1-96 for ILMSkin contactNuclease-Free Water Library Wash BufferNo known significant effects or critical hazards. No known significant effects or critical hazards. Ligation BufferLigation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb BufferNo known significant effects or critical hazards. No known significant	
Avida Index Primer PairsNo known significant effects or critical hazards.1-96 for ILMNo known significant effects or critical hazards.2Awida Index Primer Pairs1-96 for ILMNo known significant effects or critical hazards.2Avida Index Primer Pairs1-96 for ILMNo known significant effects or critical hazards.	
Ingestion: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation BufferNo known significant effects or critical hazards. No known significant effects or critical hazards. Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb BufferNo known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Blocker Hyb BufferHyb BufferNo known significant effects or critical hazards. No known significant effects or critical hazards. Harmful if swallowed. Causes damage to orgat following a single exposure if swallowed.	
Hyb EnhancerNo known significant effects or critical hazards.2X Amplification MastermixNo known significant effects or critical hazards.Library Binding BeadsNo known significant effects or critical hazards.Capture BeadsNo known significant effects or critical hazards.Avida Index Primer PairsNo known significant effects or critical hazards.1-96 for ILMNo known significant effects or critical hazards.	
Over-exposure signs/symptoms	
Eye contact: Nuclease-Free Water Library Wash BufferNo specific data.Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension BufferNo specific data.Hyb Wash Buffer 2 Resuspension BufferNo specific data.End Prep Buffer End Prep EnzymeNo specific data.Adverse symptoms may include the following: irritation watering rednessNo specific data.Ligation BufferNo specific data.	
Ligation Enzyme Adverse symptoms may include the following:	

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A

Section 4. First aid measures

		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.
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	
Inholation		No energific data
Inhalation :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	No specific data.
Skin contact :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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
		increase in foetal deaths
		skeletal malformations
	2X Amplification Mastermin	No specific data.
	2X Amplification Mastermix	•
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	

14/60

Section 4. First	alu illeasures	
Ingestion	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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 Hyb Blocker	No specific data. 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
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	
Indication of immediate n	nedical attention and special treat	ment needed if necessary
Notes to physician	: Nuclease-Free Water	Treat symptomatically. Contact poison treatment
Notes to physician	. Nuclease-i lee Water	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.
	Resuspension Buffer	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
	Find Dran Duffer	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
	5	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
	Like Dissission	ingested or inhaled.
	Hyb Blocker	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
	Hub Buffar	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.

	modouroo	
	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.
	2X Amplification Mastermix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
		ingested or inhaled.
	Library Binding Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Capture Beads	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Avida Index Primer Pairs 1-96 for ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments :	Nuclease-Free Water	No specific treatment.
	Library Wash Buffer	No specific treatment.
	Hyb Wash Buffer 1	No specific treatment.
	Hyb Wash Buffer 2	No specific treatment.
	Resuspension Buffer	No specific treatment.
	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.
	2X Amplification Mastermix	No specific treatment.
	Library Binding Beads Capture Beads	No specific treatment. No specific treatment.
	Avida Index Primer Pairs	No specific treatment.
	1-96 for ILM	
Protection of first-aiders :	Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training.
	Library Wash Buffer	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 or without suitable training.
	Resuspension Buffer	No action shall be taken involving any personal risk or without suitable training.
	End Prep Buffer	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
	Ligation Buffer	resuscitation. 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.
	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
		1 1 5 5

	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.
2X Amplification Mastermix	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 or without suitable training.
Capture Beads	No action shall be taken involving any personal risk or without suitable training.
Avida Index Primer Pairs 1-96 for ILM	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media		
Suitable extinguishing media	: Nuclease-Free Water	Use an extinguishing agent suitable for the 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.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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 1-96 for ILM	Use an extinguishing agent suitable for the surrounding fire.

eestion e. r nongh		
Unsuitable extinguishing	: Nuclease-Free Water	None known.
media	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer	None known.
	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 2X Amplification Mastermix	None known. None known.
	Library Binding Beads	None known.
	Capture Beads	None known.
	Avida Index Primer Pairs	None known.
	1-96 for ILM	None known.
Specific hazards arising	: Nuclease-Free Water	In a fire or if heated, a pressure increase will occur
from the chemical		and the container may burst.
	Library Wash Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hyb Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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 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 1-96 for ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
		,

18/60

Hazardous thermal	: Nuclease-Free Water	No specific data.
decomposition products	Library Wash Buffer	Decomposition products may include the following
		materials: carbon dioxide
		carbon monoxide
		halogenated compounds
		metal oxide/oxides
	Hyb Wash Buffer 1	Decomposition products may include the following materials:
		halogenated compounds
	Hyb Wash Buffer 2	metal oxide/oxides No specific data.
	Resuspension Buffer	No specific data.
	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
	Adapter for ILM	carbon monoxide No specific data.
	Hyb Blocker	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
	OV Amplification Masternaix	nitrogen oxides
	2X Amplification Mastermix	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
	Library Binding Beads	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		halogenated compounds
	Conturo Decido	metal oxide/oxides
	Capture Beads Avida Index Primer Pairs	No specific data. No specific data.
	1-96 for ILM	

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
	Library Wash 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
	Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	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
	Resuspension Buffer	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
	End Prep Buffer	action shall be taken involving any personal risk or 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
	End Prep Enzyme	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
	Ligation 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
	Ligation Enzyme	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
	Adapter for ILM	action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
	Hyb Blocker	action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
	Hyb Buffer	action shall be taken involving any personal risk or 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
	Hyb Enhancer	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
	2X Amplification Mastermix	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
	Library Binding Beads	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
	Capture Beads	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

Avida Index Primer Pais 1-96 for ILM Promptly isolate the scene by removing all pers from the vicinity of the incident if there is a fire. action shall be taken involving any personal risk without suitable training. Special protective equipment for fire-fighters : Nuclease-Free Water Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Library Wash Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Hyb Wash Buffer 1 Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Resuspension Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. End Prep Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Ligation Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Ligation Buffer Fire-fighters should wear appropriate protective equipment and s	J) - J	
equipment for fire-fighters equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Library Wash Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Hyb Wash Buffer 1 Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Resuspension Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. End Prep Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. End Prep Enzyme Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Ligation Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Ligation Enzy			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
Library Wash Buffer Library Wash Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Hyb Wash Buffer 2 Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Resuspension Buffer End Prep Buffer End Prep Enzyme End Prep Enzyme End Prep Enzyme Ligation Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Adapter for ILM			Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
Hyb Wash Buffer 1Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Hyb Wash Buffer 2Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Resuspension BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained		Library Wash Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
Hyb Wash Buffer 2Fire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Resuspension BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Adapter for ILMFire-fighters should wear appropriate protective equipment and self-contained b		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
Resuspension BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Adapter for ILMFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv 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
End Prep BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.End Prep EnzymeFire-fighters should wear appropriate protective 		Resuspension Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
End Prep EnzymeFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation BufferFire-fighters should wear appropriate protective equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode.Ligation EnzymeFire-fighters should wear appropriate protective 		End Prep Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
Ligation Buffer Ligation Buffer Ligation Buffer Ligation Buffer Ligation Enzyme Ligation Enzym		End Prep Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
Ligation Enzyme Ligation Enzyme equipment and self-contained breathing appara (SCBA) with a full face-piece operated in positiv pressure mode. Adapter for ILM Fire-fighters should wear appropriate protective		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
Adapter for ILM Fire-fighters should wear appropriate protective		Ligation Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
(SCBA) with a full face-piece operated in positiv		Adapter for ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
equipment and self-contained breathing appara		Hyb Blocker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
Hyb Buffer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara		Hyb Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
Hyb Enhancer Fire-fighters should wear appropriate protective equipment and self-contained breathing appara		Hyb Enhancer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
2X Amplification Mastermix Fire-fighters should wear appropriate protective equipment and self-contained breathing appara		2X Amplification Mastermix	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
·		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
	pressure mode.
Avida Index Primer Pairs	Fire-fighters should wear appropriate protective
1-96 for ILM	equipment and self-contained breathing apparatus
	(SCBA) with a full face-piece operated in positive
	pressure mode.

Section 6. Accidental release measures

Personal precautions, pro	ptective equipment and emerge	ncy procedures
For non-emergency personnel	: Nuclease-Free Water	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.
	Library Wash 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.
	Hyb Wash Buffer 1	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 2	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
	Resuspension 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
	End Prep 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 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
	Ligation Buffer	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

22/60

Ligation Enzyme	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. 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
Hub Placker	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
Hyb Buffer	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. 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
2X Amplification Mastermix	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.
Library Binding Beads	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected
Capture Beads	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
Avida Index Primer Pairs 1-96 for ILM	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.

23/60

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
	Library Wash Buffer	information in "For non-emergency personnel". 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
	Hyb Wash Buffer 1	information in "For non-emergency personnel". 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".
	Resuspension 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 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 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 spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	Adapter for ILM	information in "For non-emergency personnel". 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
	Hyb Blocker	information in "For non-emergency personnel". 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
	Hyb Buffer	information in "For non-emergency personnel". 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
	Hyb Enhancer	information in "For non-emergency personnel". 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
	2X Amplification Mastermix	information in "For non-emergency personnel". 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
	Library Binding Beads	information in "For non-emergency personnel". 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
	Capture Beads	information in "For non-emergency personnel". 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".
Date of issue/Date of revision	: 11/04/2024 Date of previous i	issue : 23/02/2024 Version : 1.1 24/6

	Avida Index Primer Pairs 1-96 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".
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).
	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, soil or air).
	Resuspension 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,
	End Prep 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
	End Prep Enzyme	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, 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,
	Ligation Enzyme	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)
	Adapter for ILM	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,
	Hyb Blocker	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)
	Hyb Buffer	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

	Hyb Enhancer	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. 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,
	2X 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 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, soil or air).
	Capture 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, soil or air).
	Avida Index Primer Pairs 1-96 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).
Methods and material for conta	inment and cleaning up	
	Nuclease-Free Water	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
	Library Wash Buffer	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 disposal container. Dispose of via a licensed waste
	Hyb Wash Buffer 1	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 disposal container. Dispose of via a licensed waste
	Hyb Wash Buffer 2	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
	Resuspension Buffer	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 disposal container. Dispose of via a licensed waste
	End Prep Buffer	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
	disposal container. Dispose of via a licensed waste
	disposal contractor.
End Prep Enzyme	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.
Ligation 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
Ligation Engume	disposal contractor.
Ligation Enzyme	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
Adaptar for ILM	disposal contractor. Step look if without rick. Move containers from spill
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
TIJD DIOORCI	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
	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.
2X Amplification Mastermix	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.
Library Binding Beads	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
Conture Datada	disposal contractor.
Capture Beads	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.
11/04/2024 Date of previous i	issue : 23/02/2024 Version : 1.1 27/60

Avida Index Primer Pairs 1-96 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.

recautions for safe hand	ling	
Protective measures	: Nuclease-Free Water	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).
	Resuspension Buffer	Put on appropriate personal protective equipment (see Section 8).
	End Prep Buffer	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 and can be hazardous. Do not reuse container.
	End Prep Enzyme	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 no reuse container.
	Ligation Buffer	Put on appropriate personal protective equipment (see Section 8).
	Ligation Enzyme	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 no reuse container.
	Adapter for ILM	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 haza 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.
	Hyb Enhancer	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.
	2X Amplification Mastermix	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 (see Section 8).
	Avida Index Primer Pairs 1-96 for ILM	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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
	Library Wash Buffer	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.
	Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	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
	Resuspension Buffer	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
	End Prep Buffer	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
	End Prep Enzyme	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

Ligation Buffer	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 before entering eating areas. See also Section 8 for
Ligation Enzyme	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
Adapter 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
Hyb Blocker	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 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
Hyb Enhancer	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
2X Amplification Mastermix	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
Library Binding Beads	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
Capture Beads	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

	Avida Index Primer Pairs 1-96 for ILM	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 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 incompatible materials before handling or use.
	Library 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.
	Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	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
	Resuspension 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

31/60

End Prep Buffer	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
End Prep Enzyme	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. 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
Ligation Buffer	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
Ligation Enzyme	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
Adapter for ILM	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
Hyb Blocker	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

Hyb Buffer	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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have
Hyb Enhancer	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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept
2X Amplification Mastermix	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
Library Binding Beads	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
Capture Beads	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
Avida Index Primer Pairs 1-96 for ILM	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
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
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.
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	TWA: 10 ppm 8 hours. 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
2X Amplification Mastermix Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
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/m³, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m³ 8 hours. Form: inhalable fraction

Biological exposure indices

Section 8. Exposure controls and personal protection

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 measures	
Hygiene measures :	W

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: safety glasses with side-shields.
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 W Library Wash Buffer Hyb Wash Buffer Resuspension Bu End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	fer Liquid. 1 Liquid. 2 Liquid. Iffer Liquid. Liquid.
----------------	--	---

Section 9. Physical and chemical properties and safety characteristics

	Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Liquid. Liquid. Liquid. Liquid. Liquid.
Colour :	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Colourless. Not available. Not available.
Odour :	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Odourless. Not available. Not available.
Odour threshold :	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Not available. Not available.

рН	:	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	7 Not available. 7.2 to 7.6 7.2 to 7.6 8 7.5 8 7.5 8 7.5 8 7.5 Not available. Not available. 8 Not available. 8
Melting point/freezing point	:	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	$0^{\circ}C (32^{\circ}F)$ Not available. Not available. $0^{\circ}C (32^{\circ}F)$ $0^{\circ}C (32^{\circ}F)$ Not available. Not available. Not available. $0^{\circ}C (32^{\circ}F)$ $0^{\circ}C (32^{\circ}F)$ Not available. Not available.
Boiling point, initial boiling point, and boiling range	:	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	100°C (212°F) Not available. Not available. 100°C (212°F) 100°C (212°F) Not available. Not available. Not available. 100°C (212°F) 100°C (212°F) Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Flash point	4		

		Closed	cup	Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
Library Wash Buffer						
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
End Prep Enzyme						
Glycerol	-	-	-	177	350.6	-
Ligation Buffer						
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
Ligation Enzyme						
Glycerol	-	-	-	177	350.6	-
Hyb Enhancer						
Formamide	150	302	-	152	305.6	DIN EN ISO 2592
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
2X Amplification Mastermix						
Glycerol	-	-	-	177	350.6	-
Library Binding Beads						
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-

characteristics		
Evaporation rate	Nuclease-Free WaterNot available.Library Wash BufferNot available.Hyb Wash Buffer 1Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 2Not available.Resuspension BufferNot available.End Prep BufferNot available.Ligation BufferNot available.Ligation EnzymeNot available.Adapter for ILMNot available.Hyb BlockerNot available.Hyb BufferNot available.Hyb BufferNot available.Ligation EnzymeNot available.Adapter for ILMNot available.Hyb BlockerNot available.Hyb EnhancerNot available.ZX Amplification MastermixNot available.Library Binding BeadsNot available.Capture BeadsNot available.Avida Index Primer PairsNot available.1-96 for ILMNot available.	
Flammability	Nuclease-Free WaterNot applicable.Library Wash BufferNot applicable.Hyb Wash Buffer 1Not applicable.Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 2Not applicable.Resuspension BufferNot applicable.End Prep BufferNot applicable.Ligation BufferNot applicable.Ligation EnzymeNot applicable.Ligation EnzymeNot applicable.Hyb BlockerNot applicable.Hyb BufferNot applicable.Hyb BufferNot applicable.Hyb BufferNot applicable.Hyb EnhancerNot applicable.Library Binding BeadsNot applicable.Avida Index Primer PairsNot applicable.1-96 for ILMNot applicable.	
Lower and upper explosion limit/flammability limit	Nuclease-Free WaterNot available.Jibrary Wash BufferNot available.Hyb Wash Buffer 1Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 3Not available.Hyb Wash Buffer 4Not available.Hyb Wash Buffer 5Not available.Hyb Buffer 5Not available.Hyb Blocker 5Not available.Hyb Buffer 5Not available.Hyb Enhancer 5Not available.Library Binding Beads 5Not available.Capture Beads 5Not available.Avida Index Primer Pairs 5Not available.1-96 for ILM 5Not available.	
Vapour pressure	Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room 12.3 kPa (92.258 mm Hg) [5	

	Vapou	ır Pressu	re at 20°C	Vapo	ur pressu	ure at 50°
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.0000004	-	-	-	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
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						
4/2024 Date of	previous iss	sue	: 23/02/2024		Version	:1.1

Date of issue/Date of revision

characteristics	1					1	
	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	-	-	-	-
	Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	_	-	-	-
	2X Amplification Mastermix						
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Library Binding Beads						
	water	17.5	2.3	-	92.258	12.3	-
	Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
	Capture Beads						
	water	17.5	2.3	-	92.258	12.3	-
	Avida Index Primer Pairs 1-96 for ILM						
	water		2.3	-	92.258	12.3	-
	Nuclease-Free Wate Library Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer		0.62 [Air Not avail Not avail	able. able. able. able. able. able. able. able. able. able.			

Polotivo de reito	Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Not available. Not available. Not available. Not available. Not available.	
Relative density	Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	1 Not available. Not available.	
Solubility(ies)	Media	Result	
	Nuclease-Free Water water Library Wash Buffer water Hyb Wash Buffer 1 water Hyb Wash Buffer 2 water Resuspension Buffer water End Prep Buffer water End Prep Enzyme water Ligation Buffer water Ligation Enzyme water Adapter for ILM water	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble	
	water Hyb Blocker water Hyb Buffer	Soluble	
	water Hyb Enhancer	Soluble	
	water Library Binding Beads water	Soluble Soluble	
	Capture Beads water Avida Index Primer Pairs 1-		
	water	Soluble	

Partition coefficient: n-	1	Nuclease-Free Water	-'	1.38	
octanol/water		Library Wash Buffer	N	lot applicable	
		Hyb Wash Buffer 1	N	lot applicable	
		Hyb Wash Buffer 2	N	lot applicable	
		Resuspension Buffer	N	lot applicable	
		End Prep Buffer	N	lot applicable	
		End Prep Enzyme	N	lot applicable	
		Ligation Buffer	N	lot applicable	
		Ligation Enzyme	N	lot applicable	
		Adapter for ILM	N	lot applicable	
		Hyb Blocker	N	lot applicable	
		Hyb Buffer	N	lot applicable	
		Hyb Enhancer	N	lot applicable	
		2X Amplification Mastermix	N	lot applicable	
		Library Binding Beads	N	lot applicable	
		Capture Beads	N	lot applicable	
		Avida Index Primer Pairs	N	lot applicable	
		1-96 for ILM			
Auto-ignition temperature	1	Ingredient name		°C	°F

Aut	:0-	igni	itio	n t	emp	pera	ture	

Г				
	Ingredient name	°C	°F	Method
	Library Wash Buffer			
	Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	360	680	-
	End Prep Enzyme			
	Glycerol	370	698	-
	Ligation Buffer			
	Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	360	680	-
	Ligation Enzyme			
	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
	2X Amplification Mastermix			
	Glycerol	370	698	-
	Library Binding Beads			
	Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	360	680	-

endracteristics	
Decomposition temperature	Nuclease-Free WaterNot available.Library Wash BufferNot available.Hyb Wash Buffer 1Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 2Not available.Resuspension BufferNot available.End Prep BufferNot available.End Prep EnzymeNot available.Ligation BufferNot available.Ligation EnzymeNot available.Adapter for ILMNot available.Hyb BlockerNot available.Hyb BufferNot available.Hyb EnhancerNot available.ZX Amplification MastermixNot available.Library Binding BeadsNot available.Avida Index Primer PairsNot available.1-96 for ILMNot available.
Viscosity	Nuclease-Free WaterNot available.Library Wash BufferNot available.Hyb Wash Buffer 1Not available.Hyb Wash Buffer 2Not available.Hyb Wash Buffer 2Not available.Resuspension BufferNot available.End Prep BufferNot available.End Prep EnzymeNot available.Ligation BufferNot available.Ligation EnzymeNot available.Adapter for ILMNot available.Hyb BlockerNot available.Hyb BufferNot available.Hyb EnhancerNot available.2X Amplification MastermixNot available.Library Binding BeadsNot available.Avida Index Primer PairsNot available.1-96 for ILMNot available.
Particle characteristics Median particle size	Nuclease-Free Water Library Wash BufferNot applicable.Hyb Wash Buffer 1 Hyb Wash Buffer 2Not applicable.Hyb Wash Buffer 2 Resuspension BufferNot applicable.End Prep Buffer

Section 10. Stability and reactivity

Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available for this product or its ingredients.					
	Library Wash Buffer	No specific test data related to reactivity available for					
	Hyb Wash Buffer 1	this product or its ingredients.					
	Hyb Wash Buller 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					
	Resuspension Buffer	this product or its ingredients. No specific test data related to reactivity available for					
		this product or its ingredients.					
	End Prep Buffer	No specific test data related to reactivity available for					
	End Prep Enzyme	this product or its ingredients. 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	this product or its ingredients. No specific test data related to reactivity available for					
	g,	this product or its ingredients.					
	Adapter for ILM	No specific test data related to reactivity available for					
	Hyb Blocker	this product or its ingredients. 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.					
	2X Amplification Mastermix						
		this product or its ingredients.					
	Library Binding Beads	No specific test data related to reactivity available for					
	Capture Beads	this product or its ingredients. No specific test data related to reactivity available for					
		this product or its ingredients.					
	Avida Index Primer Pairs	No specific test data related to reactivity available for					
	1-96 for ILM	this product or its ingredients.					
Chemical stability	: Nuclease-Free Water	The product is stable.					
	Library Wash Buffer	The product is stable.					
	Hyb Wash Buffer 1	The product is stable.					
	Hyb Wash Buffer 2	The product is stable.					
	Resuspension Buffer End Prep Buffer	The product is stable. The product is stable.					
	End Prep Enzyme	The product is stable.					
	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 Hyb Enhancer	The product is stable. The product is stable.					
	2X Amplification Mastermix	The product is stable.					
	Library Binding Beads	The product is stable.					
	Capture Beads	The product is stable.					
	Avida Index Primer Pairs	The product is stable.					
	1-96 for ILM						
Describility of bazardous	: Nuclease-Free Water	Linder normal conditions of storage and use					
Possibility of hazardous reactions		Under normal conditions of storage and use, 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.					
Date of issue/Date of revision	: 11/04/2024 Date of previous i	ssue : 23/02/2024 Version : 1.1 45/60					

Section 10. Stability and reactivity

	Resuspension Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	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,
	Ligation Enzyme	hazardous reactions will not occur. Under normal conditions of storage and use,
	Adapter for ILM	hazardous reactions will not occur. Under normal conditions of storage and use,
	Hyb Blocker	hazardous reactions will not occur. Under normal conditions of storage and use,
	Hyb Buffer	hazardous reactions will not occur. Under normal conditions of storage and use,
	Hyb Enhancer	hazardous reactions will not occur. Under normal conditions of storage and use,
	2X Amplification Mastermix	hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	Library Binding Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
	Capture Beads	Under normal conditions of storage and use, hazardous reactions will not occur.
	Avida Index Primer Pairs	Under normal conditions of storage and use,
	1-96 for ILM	hazardous reactions will not occur.
Conditions to avoid :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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.
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 1-96 for ILM	No specific data.
Incompatible materials :	Nuclease-Free Water	May react or be incompatible with oxidising materials.
	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.
	Resuspension Buffer	May react or be incompatible with oxidising materials.
	End Prep Buffer	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 Hyb Buffer	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
	Hyb Enhancer	May react or be incompatible with oxidising materials.
	2X Amplification Mastermix	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.

Section 10. Stability and reactivity

	, , , , , , , , , , , , , , , , , , ,	
	Avida Index Primer Pairs 1-96 for ILM	May react or be incompatible with oxidising materials.
Hazardous decomposition products	: Nuclease-Free Water	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
	Hyb Wash Buffer 1	produced. 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.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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 produced.
	Avida Index Primer Pairs 1-96 for ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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 chloride	LD50 Dermal LD50 Oral	Rabbit - Male, Female Rat	200 to 500 mg/ kg 50 mg/kg	-
Hyb Enhancer Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours - -
2X Amplification Mastermix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
Eves - Mild irritant	Rabbit	-	500 mg	-
Skin - Mild irritant	Rabbit	-	24 hours 500	-
Skin - Mild irritant	Rabbit	-	500 mg	-
Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
Eyes - Mild irritant	Rabbit	-	500 mg	-
Skin - Mild irritant	Rabbit	-	24 hours 500	-
Skin - Mild irritant	Rabbit	-	500 mg	-
Eyes - Mild irritant	Rabbit	-		-
Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant Eyes - Mild irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant	Eyes - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbit	Eyes - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbit	Eyes - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-500 mg 24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-500 mg 24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mg

Section 11. Toxico	biogical inform	ation			
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 Skin - Mild irritant	Rabbit Rabbit	-	500 mg 24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
2X Amplification Mastermix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
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 Skin - Mild irritant	Rabbit Rabbit	-	500 mg 24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 500 mg	-

Sensitisation

Not available.

<u>Mutagenicity</u>	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ tox	<u>icity (single exposure)</u>

Name	Category	Route of exposure	Target organs
Hyb Buffer tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Hyb Enhancer Formamide	Category 2	oral	blood

Aspiration hazard

Not available.

	- 3	
-	: Nuclease-Free Water	Not available.
of exposure	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	End Prep Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	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.
	2X Amplification Mastermix	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 1-96 for ILM	Not available.
Potential acute health effects		
Eye contact	Nuclease-Free Water	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.
	Resuspension Buffer	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	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	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads Avida Index Primer Pairs	No known significant effects or critical hazards. No known significant effects or critical hazards.
	1-96 for ILM	No known significant enects of childa hazards.
Inhalation	: Nuclease-Free Water	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.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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 1-96 for ILM	No known significant effects or critical hazards.

	: Nuclease-Free Water	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.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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 1-96 for ILM	No known significant effects or critical hazards.
Ingestion	: Nuclease-Free Water	No known significant effects or critical hazards.
J	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.
	Resuspension Buffer	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.
	2X Amplification Mastermix	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.
	•	No known significant effects or critical bazards
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
ymptoms related to the p	Avida Index Primer Pairs	
	Avida Index Primer Pairs 1-96 for ILM	
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water	<u>cal characteristics</u> No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical. chemical and toxicologi : Nuclease-Free Water Library Wash Buffer	<mark>cal characteristics</mark> No specific data. No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1	<u>cal characteristics</u> No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	<mark>cal characteristics</mark> No specific data. No specific data. No specific data. No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following:
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following:
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation
	Avida Index Primer Pairs 1-96 for ILM hysical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering watering watering watering
	Avida Index Primer Pairs 1-96 for ILM hysical. chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness
	Avida Index Primer Pairs 1-96 for ILM hysical. chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
Symptoms related to the p Eye contact	Avida Index Primer Pairs 1-96 for ILM Physical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	cal characteristics No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. No specific data. No specific data.
	Avida Index Primer Pairs 1-96 for ILM hysical. chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	cal characteristics No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following:
	Avida Index Primer Pairs 1-96 for ILM Physical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: pain or irritation
	Avida Index Primer Pairs 1-96 for ILM Physical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	cal characteristics No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data. Adverse symptoms may include the following: pain or irritation watering
	Avida Index Primer Pairs 1-96 for ILM Physical, chemical and toxicologi : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	cal characteristics No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: pain or irritation

	ogical information	
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	
Inhalation	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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
	OV Amerilification Masterneiv	skeletal malformations
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
.	1-96 for ILM	
Skin contact	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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
		increase in foetal deaths
		skeletal malformations
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	
Ingestion	Nuclease-Free Water	No specific data.
U U	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	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:

52/60

2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM reduced foetal weight increase in foetal deaths skeletal malformations No specific data. No specific data. No specific data. No specific data.

Delayed and immediate effe	ects as well as chronic effects from	short and long-term exposure

Delayed and immediate effect	ell as chronic effects from short and long-term exposure	
<u>Short term exposure</u>		
Potential immediate effects	available.	
Potential delayed effects	available.	
Long term exposure		
Potential immediate effects	available.	
Potential delayed effects	available.	
Potential chronic health eff		
General	clease-Free Water ary Wash BufferNo known significant effects or critical No known significant effects or critical 	I hazards. I hazards.
Carcinogenicity	Index ary Wash BufferNo known significant effects or critical No known significant	I hazards. I hazards.

Mutagenicity	: Nuclease-Free Water	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.
	Resuspension Buffer	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	No known significant effects or critical hazards.
	2X Amplification Mastermix	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.
	1-96 for ILM	
Reproductive toxicity	: Nuclease-Free Water	No known significant effects or critical hazards.
itopioudouro toxioity		
noproductive texterly	Library Wash Buffer	No known significant effects or critical hazards.
	Library Wash Buffer Hyb Wash Buffer 1	
		No known significant effects or critical hazards.
	Hyb Wash Buffer 1	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. No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	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.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer 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.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer 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.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix	No known significant effects or critical hazards. No known significant effects or critical hazards. May damage fertility or the unborn child. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix	No known significant effects or critical hazards. No known significant effects or critical hazards. May damage fertility or the unborn child. No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
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- Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
Ligation Enzyme Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer					

	mation				
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					
2X Amplification Mastermix					
Glycerol	12600	N/A	N/A	N/A	N/A
Library Binding Beads					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-	28000	N/A	N/A	N/A	N/A
Ethane-1,2-diol, ethoxylated					

Other information	: End Pi
	Adapte

End Prep Buffer Adapter for ILM

Hyb Enhancer

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

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
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
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	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours

chloride			
Hyb Enhancer			
Formamide	Acute EC50 >500 mg/l Fresh water Acute EC50 >500 mg/l Fresh water Acute LC50 6569 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water	Algae Daphnia Fish Algae Fish	72 hours 48 hours 96 hours 72 hours 96 hours
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
2X Amplification Mastermix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	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
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	-
End Prep Enzyme Glycerol	301D Ready	93 % - 30 days		
Giyceroi	Biodegradability - Closed Bottle Test	93 % - 30 days	-	
Ligation Buffer Poly(oxy-1,2-ethanediyl),α-	OECD 301D	74.85 % - Readily - 28 days	4 mg/l	
hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Ready Biodegradability - Closed Bottle Test	74.05 % - Reauly - 20 uays	4 1119/1	
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Hyb Enhancer				
Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
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	-
Date of issue/Date of revision	Closed Bottle Test	Date of previous issue : 23/02	2/2024	Version : 1.1

Avida DNA Reagent Kit with 1-96 Inc	lex Primer Pairs for IL	M, 96 reactions, Part Nur	nber G9418A		
Section 12. Ecolo	gical inform	nation			
2X Amplification Mastermix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 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
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-		-		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
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	
Library Wash Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	3.2	Low	
End Prep Enzyme Glycerol	-1.76	-	Low	
Ligation Buffer Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	3.2	Low	
Date of issue/Date of revision	: 11/04/2024	Date of previous issue	: 23/02/2024 Versi	on : 1.1 57/60

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A

Section 12. Ecological information

Section 12. Ecological information				
Ligation Enzyme Glycerol	-1.76	-	Low	
Hyb Buffer tetramethylammonium chloride	<-1.6	-	Low	
Hyb Enhancer Formamide Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-0.82 -	- 3.2	Low Low	
2X Amplification Mastermix Glycerol	-1.76	-	Low	
Library Binding Beads Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	3.2	Low	

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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 / IATA : Not regulated as Dangerous Goods according to the ADG Code .
 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 : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

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	1	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	: 11/04/2024
Date of previous issue	: 23/02/2024
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 Ligation Enzyme	Calculation method
Date of issue/Date of revision : 11/04/2024 Date of previo	us issue : 23/02/2024 Version : 1.1 59/60

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A Section 16. Any other relevant information			
Hyb Buffer ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method Calculation method Calculation method Calculation method		
Hyb Enhancer CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED	Calculation method Calculation method Calculation method		

✓ Indicates information that has changed from previously issued version.

Notice to reader

EXPOSURE - Category 2

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.