SAFETY DATA SHEET



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 Primer Pairs for ILM, 96 reactions, Part Number G9418A	
Part no. (chemical kit)	: G9418A	
Part no.	: Avida DNA and Duo Reagent Box 2, 96 reactions	<u>5282-0142</u>
	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
	Avida Beads Box, 96 Reactions	<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	<u>5280-0055</u> 5274-0079
Relevant identified uses o	f the substance or mixture and uses advised ag	
Identified uses	: Analytical reagent. For research use only.	
	Nuclease-Free Water	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)
		0.944 ml (96 reactions)
	Capture Beads Avida Index Primer Pairs 1-96 for ILM	96 x 0.005 ml
		96 X 0.005 mi
Uses advised against	: Not for use in diagnostic procedures.	
Supplier/Manufacturer	: Agilent Technologies, Inc.	
Supplier/Manufacturer	5301 Stevens Creek Blvd	
Supplier/Manufacturer	5301 Stevens Creek Blvd Santa Clara, CA 95051, USA	

Section 1. Identification

Emergency telephone number (with hours of operation)

: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Classification of the substance or mixture			
End Prep Buffer H412	AQUATIC HAZARD (LONG-TERM) - Category 3		
End Prep Enzyme H320	EYE IRRITATION - Category 2	В	
Ligation Enzyme H320	EYE IRRITATION - Category 2	В	
Hyb Buffer H302 H315 H370 H412	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		
Hyb Enhancer H351 H360 H373	CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2		
GHS label elements			
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. Danger Danger No signal word. No signal word.	

Section 2. Hazard identification

Hazard statements	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer Hyb Wash Buffer 1	No known significant effects or critical hazards. 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	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	5
Precautionary statements		
· · · · · · · · · · · · · · · · · · ·	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Ŵash 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.
	Hyb Buffer	Not applicable. P280 - Wear protective gloves.
	Tiyb Duller	P273 - Avoid release to the environment.
		P260 - Do not breathe vapor.
		P270 - Do not eat, drink or smoke when using this
		product.
		P264 - Wash thoroughly after handling.
	Hyb Enhancer	P201 - Obtain special instructions before use.
		P280 - Wear protective gloves, protective clothing
		and eye or face protection.
		P260 - Do not breathe vapor.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads Capture Beads	Not applicable. Not applicable.
	Avida Index Primer Pairs	Not applicable.
	1-96 for ILM	
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

Section 2. Hazard identification

Date of issue/Date of revision	: 04/11/2024 Date of previous is	ssue : 02/23/2024 Version : 1.1 4/62
	Hyb Enhancer	international regulations. P501 - Dispose of contents and container in
	Hyb Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and
	Adapter for ILM Hyb Blocker	Not applicable. Not applicable.
	Ligation Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
		international regulations.
	End Prep Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and
	Resuspension Buffer	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Library Wash Buffer	Not applicable.
Disposal	: Nuclease-Free Water	Not applicable.
	1-96 for ILM	
	Capture Beads Avida Index Primer Pairs	Not applicable. Not applicable.
	Library Binding Beads	Not applicable.
	2X Amplification Mastermix	Not applicable.
	Hyb Enhancer	Not applicable.
	Hyb Buffer	Not applicable.
	Adapter for ILM Hyb Blocker	Not applicable. Not applicable.
	Ligation Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	End Prep Buffer	Not applicable.
	Hyb Wash Buffer 2 Resuspension Buffer	Not applicable. Not applicable.
	Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not applicable.
	Library Wash Buffer	Not applicable.
Storage	: Nuclease-Free Water	Not applicable.
	1-96 for ILM	
	Avida Index Primer Pairs	Not applicable.
	Capture Beads	Not applicable.
	2X Amplification Mastermix Library Binding Beads	Not applicable. Not applicable.
	2X Amplification Mastermix	advice or attention.
	Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get medical
		water.
		P302 + P352 - IF ON SKIN: Wash with plenty of
		P362 + P364 - Take off contaminated clothing and wash it before reuse.
		POISON CENTER or doctor.
	Hyb Buffer	P308 + P311 - IF exposed or concerned: Call a
	Hyb Blocker	Not applicable.
	Adapter for ILM	Not applicable.
		P337 + P313 - If eye irritation persists: Get medical advice or attention.
		lenses, if present and easy to do. Continue rinsing.
	<u> </u>	with water for several minutes. Remove contact
	Ligation Enzyme	P305 + P351 + P338 - IF IN EYES: Rinse cautiously
	Ligation Buffer	advice or attention. Not applicable.
		P337 + P313 - If eye irritation persists: Get medical
		lenses, if present and easy to do. Continue rinsing.
		with water for several minutes. Remove contact

Section 2. Hazard identification

	2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label : elements	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	None known. None known.
	Hyb Buffer Hyb Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s)
Other hazards which do not result in classification	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	of unknown hazards to the aquatic environment: 3.4% None known. None known.

Section 3. Composition/information on ingredients

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
	č	

Section 3. Composition/information on ingredients

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	

Ingredient name	Synonyms	% (w/w)	CAS number
Nuclease-Free Water			
water	Water	100	7732-18-5
Hyb Wash Buffer 1			
Sodium dodecyl sulphate	Sodium dodecyl sulphate	≥0.1 - ≤1	151-21-3
Hyb Wash Buffer 2			
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	Polyethylene glycol octaphenyl ether	≤0.1	9036-19-5
End Prep Buffer			
Magnesium chloride	Magnesium chloride	≥1 - ≤5	7786-30-3
End Prep Enzyme			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
Ligation Enzyme			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
Hyb Buffer			
tetramethylammonium chloride	tetramethylammonium chloride	≥10 - ≤30	75-57-0
Dextran sulfate sodium	Dextran Sulfate	≥1 - ≤5	9011-18-1
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	Polyethylene glycol octaphenyl ether	≤0.1	9036-19-5
Hyb Enhancer			
Formamide	Formamide	≥80	75-12-7
2X Amplification Mastermix			
Glycerol	Glycerol	≥5 - ≤10	56-81-5

Date of issue/Date of revision

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

Section 3. Composition/information on ingredients

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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.

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

Description of necess	<u>sary first aid measures</u>	
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
	Library Wash Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Wash Buffer 1	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Wash Buffer 2	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Resuspension Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	End Prep Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	End Prep Enzyme	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention
	Ligation Buffer	get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation accura
	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	get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Blocker	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Hyb Buffer	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue

	Hyb Enhancer 2X Amplification Mastermix	to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
	Library Binding Beads	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.
	Capture Beads	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Avida Index Primer Pairs 1-96 for ILM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Nuclease-Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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 attention if symptoms occur.
Hyb Buffer 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 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. 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.

Skin contact	: 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
	Resuspension Buffer	medical attention if symptoms occur. Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	End Prep Buffer	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	End Prep Enzyme	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur. Wash clothing
	Ligation Buffer	before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get
		medical attention if symptoms occur.
	Ligation Enzyme	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
	Hub Blacker	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
		before reuse.
	2X Amplification Mastermix	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 medical attention if symptoms occur.
	Capture Beads	Flush contaminated skin with plenty of water.
	Capture Deads	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.

Ingestion	: 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
		personnel. Get medical attention if symptoms occur.
	Library Wash Buffer	Wash out mouth with water. If material has been
		swallowed and the exposed person is conscious, give
		small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
		personnel. Get medical attention if symptoms occur.
	Hyb Wash Buffer 1	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 Wash Buffer 2	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.
	Resuspension 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
	End Prep Buffer	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been
	End Frep Buller	swallowed and the exposed person is conscious, give
		small quantities of water to drink. Do not induce
		vomiting unless directed to do so by medical
	End Prep Enzyme	personnel. Wash out mouth with water. Remove dentures if any.
		If material has been swallowed and the exposed
		person is conscious, give small quantities of water to
		drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting
		unless directed to do so by medical personnel. If
		vomiting occurs, the head should be kept low so that
		vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never
		give anything by mouth to an unconscious person. If
		unconscious, place in recovery position and get
		medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,
		belt or waistband.
	Ligation Buffer	Wash out mouth with water. If material has been
		swallowed and the exposed person is conscious, give
		small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
		personnel. Get medical attention if symptoms occur.
	Ligation Enzyme	Wash out mouth with water. Remove dentures if any.
		If material has been swallowed and the exposed person is conscious, give small quantities of water to
		drink. Stop if the exposed person feels sick as
		vomiting may be dangerous. Do not induce vomiting
		unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that
		vomit does not enter the lungs. Get medical attention
		if adverse health effects persist or are severe. Never
		give anything by mouth to an unconscious person. If unconscious, place in recovery position and get
		anocholous, 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 ILN	Μ	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,
2X Amplificatio	on Mastermix	tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Library Binding	g Beads	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Capture Beads	5	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Avida Index Pr 1-96 for ILM	imer Pairs	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Potential acute health e	effects	
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 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. 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 Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure if inhaled.
	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.
Skin 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 	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation No known significant effects or critical hazards. No known significant effects or critical hazards.
	Library Binding Beads Capture Beads Avida Index Primer Pairs	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

	1-96 for ILM	
Ingestion	: 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	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.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	1-96 for ILM	, and the second s
<u>Over-exposure signs/sy</u>	<u>ymptoms</u>	
Eye contact	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Ŵash 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	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Ligation Buffer	No specific data.
	Ligation Enzyme	Adverse symptoms may include the following:
	5 ,	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	
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.
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Date of issue/Date of revision	: 04/11/2024 Date of previous i	issue : 02/23/2024 Version : 1.1

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	modouroo	
	Hyb Buffer Hyb Enhancer	No specific data. Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No specific data. No specific data. No specific data. No specific data.
Skin 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	No specific data. No specific data. Adverse symptoms may include the following: irritation redness
	Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations No specific data. No specific data. No specific data. No specific data.
Ingestion :	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	No specific data. No specific data. Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	No specific data. No specific data. No specific data. No specific data.

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

Notes to physician	: Nuclease-Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
		ingested or inhaled.
	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
		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
	Lightian Buffer	ingested or inhaled.
	Ligation Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed
		person may need to be kept under medical
		surveillance for 48 hours.
	Ligation Enzyme	Treat symptomatically. Contact poison treatment
	gje	specialist immediately if large quantities have been
		ingested or inhaled.
	Adapter for ILM	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been ingested or inhaled.
	Hyb Blocker	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
		ingested or inhaled.
	Hyb Buffer	In case of inhalation of decomposition products in a
		fire, symptoms may be delayed. The exposed
		person may need to be kept under medical
	Hyb Enhancer	surveillance for 48 hours. 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
	l l	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	Treat symptomatically. Contact poison treatment
	1-96 for ILM	specialist immediately if large quantities have been
		ingested or inhaled.

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Capture Beads

Avida Index Primer Pairs 1-96 for ILM No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing : Nuclease-Free Water Use an extinguishing agent suitable for the surrounding fire. media Library Wash Buffer Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the Hyb Wash Buffer 1 surrounding fire. Hyb Wash Buffer 2 Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the **Resuspension Buffer** 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. Use an extinguishing agent suitable for the Ligation Enzyme 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. Use an extinguishing agent suitable for the Hyb Enhancer surrounding fire. Use an extinguishing agent suitable for the 2X Amplification Mastermix surrounding fire. Library Binding Beads Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the Capture Beads surrounding fire. Avida Index Primer Pairs Use an extinguishing agent suitable for the 1-96 for ILM surrounding fire. **Unsuitable extinguishing** : Nuclease-Free Water None known. media Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hvb 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 1-96 for ILM	None known.
Specific hazards arising from the chemical	: Nuclease-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	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.
Hazardous thermal decomposition products	: Nuclease-Free Water Library Wash Buffer	No specific data. 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 metal oxide/oxides
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer End Prep Buffer	No specific data. 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 Enzymo	
	Ligation Enzyme	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
	Adapter for ILM	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
	Hub Enhancer	
	Hyb Enhancer	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
		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
		metal oxide/oxides
	Capture Beads	No specific data.
	Avida Index Primer Pairs	No specific data.
	1-96 for ILM	No specific data.
Special protective actions	: Nuclease-Free Water	Promptly isolate the scene by removing all persons
for fire-fighters		from the vicinity of the incident if there is a fire. No
U		action shall be taken involving any personal risk or
		without suitable training.
	Library Wash Buffer	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No
		action shall be taken involving any personal risk or
	Hyb Wash Puffar 1	without suitable training.
	Hyb Wash Buffer 1	Promptly isolate the scene by removing all persons
		from the vicinity of the incident if there is a fire. No
		action shall be taken involving any personal risk or

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
End Prep Enzyme	from the vicinity of the incident if there is a fire. No 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 without suitable training.
Ligation Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
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 action shall be taken involving any personal risk or
Adapter for ILM	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 Blocker	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 action shall be taken involving any personal risk or
Avida Index Primer Pairs 1-96 for ILM	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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Special protective equipment for fire-fighters	Nuclease-Free Water	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Library Wash Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Wash Buffer 1	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Wash Buffer 2	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Resuspension Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	End Prep Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	End Prep Enzyme	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Ligation Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Ligation Enzyme	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Adapter for ILM	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Blocker	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Buffer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Hyb Enhancer	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	2X Amplification Mastermix	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Library Binding Beads	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive 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 1-96 for ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

Section 6. Accidental release measures

Personal precautions, p	rotective 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 spilled 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 spilled 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 spilled 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 spilled 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 spilled 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 spilled material. Put on appropriate personal
	End Prep Enzyme	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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
	Ligation Buffer	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 spilled material. Put on appropriate personal

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	protective equipment.
Ligation 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 spilled material. Avoid breathing vapor or
	mist. Provide adequate ventilation. Wear
	appropriate respirator when ventilation is inadequate.
	Put on appropriate personal protective equipment.
Adapter for ILM	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 spilled material. Put on appropriate personal
	protective equipment.
Hyb Blocker	No action shall be taken involving any personal risk
	or without suitable training. Evacuate surrounding
	areas. Keep unnecessary and unprotected
	personnel from entering. Do not touch or walk
	through spilled material. Put on appropriate personal
	protective equipment.
Hyb Buffer	No action shall be taken involving any personal risk
	or without suitable training. Evacuate surrounding
	areas. Keep unnecessary and unprotected
	personnel from entering. Do not touch or walk
	through spilled material. Avoid breathing vapor 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 spilled material. Avoid breathing vapor or
	mist. Provide adequate ventilation. Wear
	appropriate respirator when ventilation is inadequate.
	Put on appropriate personal protective equipment.
2X Amplification Mastermix	No action shall be taken involving any personal risk
2X Amplification Masternix	or without suitable training. Evacuate surrounding
	areas. Keep unnecessary and unprotected
	personnel from entering. Do not touch or walk
	through spilled material. Put on appropriate personal
	protective equipment.
Library Binding Beads	No action shall be taken involving any personal risk
Library binding beads	or without suitable training. Evacuate surrounding
	areas. Keep unnecessary and unprotected
	personnel from entering. Do not touch or walk
	through spilled material. Put on appropriate personal
Conturo Roada	protective equipment.
Capture Beads	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 spilled material. Put on appropriate personal
Avide Index Drivers Deire	protective equipment.
Avida Index Primer Pairs	No action shall be taken involving any personal risk
1-96 for ILM	or without suitable training. Evacuate surrounding
	areas. Keep unnecessary and unprotected
	personnel from entering. Do not touch or walk
	through spilled material. Put on appropriate personal

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		protective equipment.
For emergency responders :	Nuclease-Free Water	If specialized 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 specialized 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 specialized 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 2	information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on
	Resuspension Buffer	suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	End Prep Buffer	information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	End Prep Enzyme	information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	Ligation Buffer	information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
	Ligation Enzyme	information in "For non-emergency personnel". If specialized 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 specialized 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 specialized clothing is required to deal with the spillage, take note of any information in Section 8 on
	Hyb Buffer	suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized 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 specialized 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 specialized 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 specialized 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 specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable materials. See also the
	Avida Index Primer Pairs 1-96 for ILM	information in "For non-emergency personnel". If specialized 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 spilled 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 spilled 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 spilled 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 spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	End Prep Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
	End Prep Enzyme	Avoid dispersal of spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Ligation Enzyme	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Adapter for ILM	Avoid dispersal of spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	Hyb Buffer	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled 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 Enhancer	soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Avoid dispersal of spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	Library Binding Beads	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	Capture Beads	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	Avida Index Primer Pairs 1-96 for ILM	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled 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 materials for con Methods for cleaning up	tainment 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 disposed container. Dispose of via a lisposed waste
	Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	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
	disposal contractor.
Resuspension Buffer	Stop leak if without risk. Move containers from spill
Recuepencien Baner	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 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.
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
	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
	disposal contractor.
Adapter for ILM	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Blocker	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Buffer	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Enhancer	Stop leak if without risk. Move containers from spill
TYD LINAIDEI	
	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 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.
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.

Precautions for safe hand	lling	
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 vapor 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 vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not 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 vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers

		retain product residue and can be hazardous. Do not
		reuse container.
	Adapter for ILM	Put on appropriate personal protective equipment
	Hyb Blocker	(see Section 8).
	Hyb Blocker	Put on appropriate personal protective equipment (see Section 8).
	Hyb Buffer	Put on appropriate personal protective equipment
	Tyb Duller	(see Section 8). Do not get in eyes or on skin or
		clothing. Do not breathe vapor or mist. Do not ingest.
		Avoid release to the environment. If during normal
		use the material presents a respiratory hazard, use
		only with adequate ventilation or wear appropriate
		respirator. Keep in the original container or an
		approved alternative made from a compatible
		material, kept tightly closed when not in use. Empty
		containers retain product residue and can be
		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 vapor 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
	Conturo Doodo	(see Section 8).
	Capture Beads	Put on appropriate personal protective equipment (see Section 8).
	Avida Index Primer Pairs	Put on appropriate personal protective equipment
	1-96 for ILM	(see Section 8).
Advice on general	Nuclease-Free Water	
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
		additional information on hygiene measures.
	Library Wash Buffer	Eating, drinking and smoking should be prohibited in
		areas where this material is handled, stored and
		processed. Workers should wash hands and face
		before eating, drinking and smoking. Remove
		contaminated clothing and protective equipment
		before entering eating areas. See also Section 8 for
	Hyb Wash Ruffor 1	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
		additional information on hygiene measures.
	Hyb Wash Buffer 2	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.
Resuspension Buffer	Eating, drinking and smoking should be prohibited in
l l	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 Drop Buffor	additional information on hygiene measures.
End Prep Buffer	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
End Prep Enzyme	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Ligation Buffer	Eating, drinking and smoking should be prohibited in
0	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Ligation Enzyme	Eating, drinking and smoking should be prohibited in
Elgadon Enzyme	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Adapter for ILM	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Hyb Blocker	Eating, drinking and smoking should be prohibited in
	areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for
	additional information on hygiene measures.
Hyb Buffer	Eating, drinking and smoking should be prohibited in
	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 Enhancer	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
	2X Amplification Mastermix	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
	Library Binding 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
	Capture Beads	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
	Avida Index Primer Pairs 1-96 for ILM	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	Library Wash Buffer	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Hyb Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Resuspension 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
End Prep 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
End Prep Enzyme	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
Ligation Buffer	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until

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

2X Amplification Mastermix	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 unlabeled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
	incompatible materials before handling or use.
Library Binding Beads	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 unlabeled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
	incompatible materials before handling or use.
Capture Beads	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 unlabeled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
	incompatible materials before handling or use.
Avida Index Primer Pairs	Store in accordance with local regulations. Store in
1-96 for ILM	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 unlabeled
	containers. Use appropriate containment to avoid
	environmental contamination. See Section 10 for
	incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
End Prep Enzyme Glycerol	CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2023). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist
Ligation Enzyme Glycerol	CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. Form: mist TWA: 10 mg/m ³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2023). TWA: 3 mg/m ³ 8 hours. Form: respirable mist TWA: 10 mg/m ³ 8 hours. Form: total mist
Hyb Enhancer Formamide	CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. OEL: 10 ppm 8 hours. OEL: 18 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 6/2023). Absorbed through skin. TWA: 10 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 10 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). Absorbed through skin. TWAEV: 10 ppm 8 hours. TWAEV: 10 ppm 8 hours. TWAEV: 18 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
2X Amplification Mastermix Glycerol	CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m ³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m ³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada,

Section 8. Exposure controls/personal protection

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7/2013).
STEL: 20 mg/m ³ 15 minutes. Form: mist
TWA: 10 mg/m ³ 8 hours. Form: mist
CA British Columbia Provincial (Canada,
6/2023).
TWA: 3 mg/m ³ 8 hours. Form: respirable
mist
TWA: 10 mg/m ³ 8 hours. Form: total mist

Biological exposure indices

No exposure indices known.

Appropriate engineering controls		If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>	
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.

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

<u>Appearance</u>		
Physical state	: 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	Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid.
Color	: 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	Colorless. Not available. Not available.
Odor	: 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	Odorless. Not available. Not available.
Date of issue/Date of revision	1-96 for ILM	ssue : 02/23/2024

Odor 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.
pH	 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 Buffer 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	: Nuclease-Free Water	100°C (212°F)
point, and boiling range	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	100°C (212°F)
	Resuspension Buffer	100°C (212°F)
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	100°C (212°F)
	Hyb Blocker	100°C (212°F)
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification Mastermix	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	100°C (212°F)
	1-96 for ILM	
Flash point	:	Closed cup

	1-96 for ILM						
Flash point	:		Closed	l cup		Open	cup
	Ingredient name	°C	°F	Method	°C	°F	Method
	End Prep Enzyme Glycerol	-	-	-	177	350.6	-
	Ligation Enzyme						
	Glycerol	-	-	-	177	350.6	-
	Hyb Enhancer						
	Formamide	150	302	-	152	305.6	DIN EN ISO 2592
	2X Amplification Mastermix						
	Glycerol	-	-	-	177	350.6	-
Evaporation rate	: Nuclease-Free Wate 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 Mas Library Binding Beac Capture Beads	r stermix	Not ava Not ava	ailable. ailable. ailable. ailable. ailable. ailable. ailable. ailable. ailable. ailable. ailable. ailable. ailable.			

		Avida Index Primer Pairs 1-96 for ILM	Not available.
Flammability	:	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	Not applicable. Not applicable.
		Capture Beads Avida Index Primer Pairs 1-96 for ILM	Not applicable. Not applicable.
Lower and upper explosion limit/flammability limit		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 Nuclease-Free Water	Not available. Not available.
Vapor pressure	1	inuclease-Free water	2.3 kPa (17.5 mm l

Vapor pressure

Date of issue/Date of revision

Nuclease-Free Water

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

	Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
Library Wash Buffer								
water	17.5	2.3	-	92.258	12.3	-		
Hyb Wash Buffer 1								
water	17.5	2.3	-	92.258	12.3	-		
Hyb Wash Buffer								
: 04/11/2024 Date of p	previous iss	sue	:02/23/2024		Version	:1.1 41/6		

Date of issue/Date of revision

2 water 17.5 2.3 - 92.258 12.3 - Resuspension Buffer 17.5 2.3 - 92.258 12.3 - Resuspension Buffer 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 - Water 17.5 2.3 - 92.258 12.3 - Ligation Buffer water 17.5 2.3 - 92.258 12.3 - Ligation Enzyme water 17.5 2.3 - 92.258 12.3 - Mater 17.5 2.3 - 92.258 12.3 - Hyb Blocker water 17.5 2.3 - 92.258 12.3 - Hyb Buffer water 17.5 2.3 - 92.258								
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End Prep Enzyme waterI.T.52.3I.S.3J.2.5J.2.3J.2.5J.2.3Glycerol0.000750.0001-0.00250.0003-Ligation Buffer water7.5.52.3-J.2.58J.2.3J.3.4Igation Enzyme water17.52.3-J.2.58J.2.3-Glycerol0.000750.0001-0.0250.0003-Glycerol0.000750.0001-0.0250.0003-Adapter for ILM water7.5.52.3-J.2.58J.2.3-Hyb Blocker water17.52.3-J.2.58J.2.3-Hyb Buffer water17.52.3-J.2.58J.2.3-Hyb Buffer water17.52.3-J.2.58J.2.3-Hyb Buffer choride17.52.3-J.2.58J.2.3-Hyb Enhancer Formamide0.0450.006Litramethylaminonium0.0450.006Litramethylaminonium0.0450.006Litramethylaminonium0.0450.006Litramethylaminonium0.0450.006Litramethylaminonium0.0450.006Litramethylaminonium0.0450.006	End	Prep Buffer						
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water17.52.3-92.25812.3-Hyb Blocker water17.52.3-92.25812.3-Hyb Buffer water17.52.3-92.25812.3-Hyb Buffer water17.52.3-92.25812.3-Hyb Buffer water17.52.392.25812.3-Hyb Buffer tetramethylammonium chloride0.00000010.00000010.0000001EU A.492.25812.3-Hyb Enhancer Formamide0.0450.006ZX Amplification0.0450.006	Glyc	erol	0.000075	0.00001	-	0.0025	0.00033	-
Hyb Blocker water17.52.3-Parametric parametric </td <td>Ada</td> <td>pter for ILM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ada	pter for ILM						
water17.52.3-92.25812.3-Hyb Buffer water17.52.3-92.25812.3-tetramethylammonium chloride0.000000010.000000013EU A.4Hyb Enhancer Formamide0.0450.0062X Amplification0.0450.006	wate	r	17.5	2.3	-	92.258	12.3	-
Hyb Buffer17.52.3-92.25812.3-water17.52.3-92.25812.3-tetramethylammonium0.000000010.00000001EU A.4Hyb Enhancer0.0450.006Formamide0.0450.006	Hyb	Blocker						
water17.52.3-92.25812.3-tetramethylammonium0.000000010.000000013EU A.4Hyb EnhancerAAAFormamide0.0450.0062X Amplification	wate	r	17.5	2.3	-	92.258	12.3	-
water17.52.3-92.25812.3-tetramethylammonium0.000000010.000000013EU A.4Hyb EnhancerAAAFormamide0.0450.0062X Amplification	Hvb	Buffer						
Hyb Enhancer 0.045 0.006 - - - 2X Amplification - - - -			17.5	2.3	-	92.258	12.3	-
Formamide 0.045 0.006 -			0.000000001	0.00000000013	EU A.4	-	-	-
Formamide 0.045 0.006 -	Hyb	Enhancer						
	Form	namide	0.045	0.006	-	-	-	-
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characteristics							
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Library Binding						
	Beads						
		47 5			00.050	10.0	
	water	17.5	2.3	-	92.258	12.3	-
	Capture Beads						
	water	17.5	2.3	-	92.258	12.3	-
	Avida Index						
	Primer Pairs 1-96						
	for ILM						
	watan	17 5	2.2		00.050	10.0	
	water	17.5	2.3	-	92.258	12.3	-
Relative vapor density :	Nuclease-Free Wate	r	0.62 [Air				
	Library Wash Buffer		Not avail				
	Hyb Wash Buffer 1		Not avail				
	Hyb Wash Buffer 2 Resuspension Buffer	-	Not avail Not avail				
	End Prep Buffer		Not avail				
	End Prep Enzyme		Not avail				
	Ligation Buffer		Not avail				
	Ligation Enzyme		Not avail				
	Adapter for ILM		Not avail				
	Hyb Blocker		Not avail				
	Hyb Buffer		Not avail				
	Hyb Enhancer		Not avail	able.			
	2X Amplification Mas	stermix	Not avail	able.			
	Library Binding Bead	S	Not avail	able.			
	Capture Beads		Not avail				
	Avida Index Primer F	Pairs	Not avail	able.			
	1-96 for ILM						
Relative density :	Nuclease-Free Wate	r	1				
	Library Wash Buffer		Not avail				
	Hyb Wash Buffer 1		Not avail				
	Hyb Wash Buffer 2	_	Not avail				
	Resuspension Buffer End Prep Buffer		Not avail Not avail				
	End Prep Enzyme		Not avail				
	Ligation Buffer		Not avail				
	Ligation Enzyme		Not avail				
	Adapter for ILM		Not avail				
	Hyb Blocker		Not avail				
	Hyb Buffer		Not avail				
	Hyb Enhancer		Not avail				
	2X Amplification Mas	stermix	Not avail	able.			
	Library Binding Bead	S	Not avail				
	Capture Beads		Not avail				
	Avida Index Primer F	Pairs	Not avail	able.			
	1-96 for ILM						

Cnaracteristics Solubility(ies)	' Madia		Beault
Solubility(les)	: Media		Result
	Nuclease-Free Water		
	water		Soluble
	Library Wash Buffer		
	water		Soluble
	Hyb Wash Buffer 1		
	water		Soluble
	Hyb Wash Buffer 2		Salubla
	water Resuspension Buffer		Soluble
	Resuspension Buffer water		Soluble
	End Prep Buffer		
	water		Soluble
	End Prep Enzyme		
	water		Soluble
	Ligation Buffer		
	water		Soluble
	Ligation Enzyme		
	water		Soluble
	Adapter for ILM		
	water		Soluble
	Hyb Blocker		
	water		Soluble
	Hyb Buffer		
	water		Soluble
	Hyb Enhancer		
	water		Soluble
	Library Binding Beads		
	water		Soluble
	Capture Beads		
	water	00.6	Soluble
	Avida Index Primer Pairs 1	-96 TOR ILM	Calubia
	water		Soluble
Partition coefficient: n-	: Nuclease-Free Water	-1.38	
octanol/water	Library Wash Buffer	Not applica	
	Hyb Wash Buffer 1	Not applica	
	Hyb Wash Buffer 2	Not applica	
	Resuspension Buffer	Not applica	
	End Prep Buffer	Not applica	
	End Prep Enzyme	Not applica	
	Ligation Buffer	Not applica	
	Ligation Enzyme Adapter for ILM	Not applica Not applica	
	Hyb Blocker	Not application	
	Hyb Buffer	Not application	
	Hyb Enhancer Not application of the second s		
	2X Amplification Mastermix Not application		
	Library Binding Beads	Not applica	
	Capture Beads	Not applica	
	Avida Index Primer Pairs	Not applica	
	1-96 for ILM	••	
Auto-ignition temperature	:		
U P			

	Ingredient name	°C	°F	Method	
	End Prep Enzyme				
	Glycerol	370	698	-	
	Ligation Enzyme				
	Glycerol	370	698	-	
	Hyb Enhancer				
	Formamide	>500	>932	ASTM D 2155-66	
	2X Amplification Mastermix	c			
	Glycerol	370	698	-	
	 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 Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM 	Not available. Not available.			
Viscosity :	 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.			
Particle characteristics					
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Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Not applicable. Not applicable. Not applicable.

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
		this product or its ingredients.
	Hyb Wash Buffer 1	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Wash Buffer 2	No specific test data related to reactivity available for
		this product or its ingredients.
	Resuspension Buffer	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
		this product or its ingredients.
	End Prep Enzyme	No specific test data related to reactivity available for
		this product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for
	-	this product or its ingredients.
	Ligation Enzyme	No specific test data related to reactivity available for
		this product or its ingredients.
	Adapter for ILM	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Blocker	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Buffer	No specific test data related to reactivity available for
		this product or its ingredients.
	Hyb Enhancer	No specific test data related to reactivity available for
		this product or its ingredients.
	2X Amplification Mastermix	No specific test data related to reactivity available for
		this product or its ingredients.
	Library Binding Beads	No specific test data related to reactivity available for
		this product or its ingredients.
	Capture Beads	No specific test data related to reactivity available for
		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.

Section 10. Stability and reactivity

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	The product is stable.
	End Prep Buffer	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	The product is stable.
	Hyb Enhancer	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	
Possibility of hazardous	: Nuclease-Free Water	Under normal conditions of storage and use,
reactions		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.
	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,
	Ū.	hazardous reactions will not occur.
	Ligation Enzyme	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Adapter for ILM	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Hyb Blocker	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Hyb Buffer	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Hyb Enhancer	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	2X Amplification Mastermix	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.

Section 10. Stability and reactivity

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 Resuspension Buffer	No specific data. 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	No specific data.
	1-96 for ILM	
Incompatible materials	: Nuclease-Free Water	May react or be incompatible with oxidizing materials.
	Library Wash Buffer	May react or be incompatible with oxidizing materials.
	Hyb Wash Buffer 1	May react or be incompatible with oxidizing materials.
	Hyb Wash Buffer 2	May react or be incompatible with oxidizing materials.
	Resuspension Buffer	May react or be incompatible with oxidizing materials.
	End Prep Buffer	May react or be incompatible with oxidizing materials.
	End Prep Enzyme	May react or be incompatible with oxidizing materials.
	Ligation Buffer	May react or be incompatible with oxidizing materials.
	Ligation Enzyme	May react or be incompatible with oxidizing materials.
	Adapter for ILM	May react or be incompatible with oxidizing materials.
	Hyb Blocker	May react or be incompatible with oxidizing materials.
	Hyb Buffer	May react or be incompatible with oxidizing materials.
	Hyb Enhancer	May react or be incompatible with oxidizing materials.
	2X Amplification Mastermix	May react or be incompatible with oxidizing materials.
	Library Binding Beads	May react or be incompatible with oxidizing materials.
	Capture Beads	May react or be incompatible with oxidizing materials.
	Avida Index Primer Pairs 1-96 for ILM	May react or be incompatible with oxidizing materials.
Hazardous decomposition	: Nuclease-Free Water	Under normal conditions of storage and use,
products		hazardous decomposition products should not be
		produced.
	Library Wash Buffer	Under normal conditions of storage and use,
		hazardous decomposition products should not be
		produced.
	Hyb Wash Buffer 1	Under normal conditions of storage and use,
		hazardous decomposition products should not be
	Hub Wash Buffar 2	produced.
	Hyb Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be
		· ·
	Resuspension Buffor	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.
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Section 10. Stability and reactivity

,	
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	
	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	Under normal conditions of storage and use,
1-96 for ILM	hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result		Species	Dose	Exposure
Hyb Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral		Rat	1288 mg/kg	-
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral		Rat	2800 mg/kg	-
End Prep Buffer Magnesium chloride	LD50 Dermal LD50 Oral		Rat - Male, Female Rat	>2000 mg/kg 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		Rabbit - Male, Female	200 to 500 mg/ kg	-
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Section 11. Toxico	plogical information			
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists	Rat - Male	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	5570 mg/kg	-
2X Amplification				
Mastermix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hyb Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	
Hyb Wash Buffer 2					
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit		1 %	
alpha[Lyes - Gevere initant	TADDIC	-	1 70	-
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
phenyijomeganyaroxy-					
End Prep Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Ligation Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit		24 hours 500	
Ciycerol		TADDIC	-	mg	-
	Skin - Mild irritant	Rabbit	_	24 hours 500	_
		Tabbit		mg	
				ing	
Hyb Buffer					
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
2X Amplification					
•					
Mastermix		Dabbit		24 hours 500	
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	<u> </u>	l	1	1	<u> </u>

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	Skin - Mild irritant	Rabbit -	- mg 24 hou mg	urs 500 -	
Sensitization Not available.					
<u>Autagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
<u>Classification</u>					
Product/ingredient nan	ne	IARC	NTP		ACGIH
Hyb Enhancer Formamide		-	-		A3
Reproductive toxicity					
Reproductive toxicity Conclusion/Summary	: Not available.				
Conclusion/Summary eratogenicity	: Not available.				
Conclusion/Summary Teratogenicity Conclusion/Summary	: Not available.				
Conclusion/Summary eratogenicity Conclusion/Summary	: Not available.				
Conclusion/Summary <u>Feratogenicity</u> Conclusion/Summary Specific target organ tox	: Not available.	Category	Route of exposure	Target	organs
Conclusion/Summary <u>eratogenicity</u> Conclusion/Summary <u>specific target organ tox</u> Name Hyb Wash Buffer 1	: Not available.				
Conclusion/Summary <u>eratogenicity</u> Conclusion/Summary <u>Specific target organ tox</u> Name Hyb Wash Buffer 1	: Not available.	Category Category 3			atory tract
Conclusion/Summary eratogenicity Conclusion/Summary Specific target organ tox Name Hyb Wash Buffer 1 Sodium dodecyl sulphate Hyb Buffer	: Not available. <u>xicity (single exposure)</u>	Category 3	exposure -	Respiratio	atory tract n
Teratogenicity	: Not available. <u>xicity (single exposure)</u>			Respir irritatio central	atory tract n nervous
Conclusion/Summary Ceratogenicity Conclusion/Summary Specific target organ tox Name Hyb Wash Buffer 1 Sodium dodecyl sulphate Hyb Buffer	: Not available. <u>xicity (single exposure)</u>	Category 3	exposure -	Respir irritatio central system	nervous (CNS) atory tract
Conclusion/Summary Ceratogenicity Conclusion/Summary Specific target organ tox Specific target organ tox Name Hyb Wash Buffer 1 Sodium dodecyl sulphate Hyb Buffer tetramethylammonium chl Dextran sulfate sodium	: Not available. <u>xicity (single exposure)</u>	Category 3 Category 1	exposure -	Respiration irritation central system Respiration	nervous (CNS) atory tract
Conclusion/Summary Ceratogenicity Conclusion/Summary Specific target organ tox Specific target organ tox Name Hyb Wash Buffer 1 Sodium dodecyl sulphate Hyb Buffer tetramethylammonium chl Dextran sulfate sodium	: Not available. <u>xicity (single exposure)</u> loride	Category 3 Category 1	exposure -	Respira irritatio central system Respira irritatio	nervous (CNS) atory tract
Conclusion/Summary Ceratogenicity Conclusion/Summary Specific target organ tox Specific target organ tox Name Hyb Wash Buffer 1 Sodium dodecyl sulphate Hyb Buffer tetramethylammonium chl Dextran sulfate sodium	: Not available. <u>xicity (single exposure)</u> loride	Category 3 Category 1 Category 3	exposure - oral - Route of	Respira irritatio central system Respira irritatio	atory tract n nervous (CNS) atory tract n

Information on the likely	: Nuclease-Free Water	Not available.
routes 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,

	5	
	Hyb Blocker Hyb Buffer	Eyes. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation,
	Hyb Enhancer	Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation,
	2X Amplification Mastermix Library Binding Beads Capture Beads	Eyes. Not available. Not available. Not available.
	Avida Index Primer Pairs 1-96 for ILM	Not available.
Potential acute health effects		
Eye contact	: Nuclease-Free Water Library Wash Buffer 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. Causes eye irritation.
	Ligation Buffer Ligation Enzyme	No known significant effects or critical hazards. Causes eye irritation.
	Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs	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.
Inhalation	1-96 for ILM : Nuclease-Free Water	No known significant effects or critical hazards.
	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	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure if inhaled.
	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.
Skin 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	No known significant effects or critical hazards. No known significant effects or critical hazards.

	Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. Causes damage to organs following a single
	Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs	exposure in contact with skin. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
	1-96 for ILM	
Ingestion	: 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	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs
	Hyb Enhancer 2X Amplification Mastermix	following a single exposure if swallowed. No known significant effects or critical hazards. No known significant effects or critical hazards.
	Library Binding Beads Capture Beads Avida Index Primer Pairs	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Symptoms related to th		cal characteristics
Symptoms related to the Eye contact	1-96 for ILM ne physical, chemical and toxicologic : Nuclease-Free Water	<u>cal characteristics</u> No specific data.
	ne physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer	No specific data. No specific data.
	ne physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1	No specific data. No specific data. No specific data.
	ne physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	No specific data. No specific data. No specific data. No specific data.
	ne physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	No specific data. No specific data. No specific data. No specific data. No specific data.
	ne physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	No specific data. No specific data. No specific data. No specific data.
	e physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme	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
	ne physical, chemical and toxicologic : Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	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
	e physical, chemical and toxicologie : 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	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
	 he physical, chemical and toxicologia 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 	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. No specific data.
	e physical, chemical and toxicologie : 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	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
	 he physical, chemical and toxicologia 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 	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. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering
	 Physical, chemical and toxicologie 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 	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. 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 redness No specific data. No specific data. No specific data. No specific data.
	 Physical, chemical and toxicologie 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 	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. 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 redness No specific 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 fetal weight
		increase in fetal 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.
		Number of Carlot
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 fetal weight
		increase in fetal 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	
In model on		
Ingestion	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data. No specific data.
	Hyb Wash Buffer 1	
	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 fetal weight
		increase in fetal deaths
		skeletal malformations

2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM

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

Delayed and immediate effe	ts and also chronic effects fro	<u>m short and long term exposure</u>
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>ects</u>	
General	 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. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	 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. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

	0	
Mutagenicity	: Nuclease-Free Water Library Wash Buffer 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.
	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.
Reproductive toxicity	: 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Library Wash Buffer					
Library Wash Buffer	37635.4	N/A	N/A	N/A	N/A
Hyb Wash Buffer 1					
Hyb Wash Buffer 1	171428.6	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
Hyb Wash Buffer 2					
Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
End Prep Buffer					
End Prep Buffer	229323.3	204752.9	N/A	N/A	N/A
Magnesium chloride	2800	2500	N/A	N/A	N/A
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Section 11. Toxicological information					
End Prep Enzyme	10000				
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer					
Hyb Buffer	450.2	2737.2	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A
Dextran sulfate sodium	20600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					
Hyb Enhancer					
Formamide	5570	17000	N/A	N/A	N/A
2X Amplification Mastermix					
Glycerol	12600	N/A	N/A	N/A	N/A
Library Binding Beads					
Library Binding Beads	17855.8	N/A	N/A	N/A	N/A

Other information

: End Prep Buffer

Hyb Enhancer

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

Adapter for ILM

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

cause eye irritation. May cause skin irritation.

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Hyb Wash Buffer 1			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae Algae - <i>Ulva fasciata</i> - Zoea Crustaceans - <i>Pseudosida</i> <i>ramosa</i> - Neonate	96 hours 96 hours 21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	Acute EC50 210 μg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus</i> <i>montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
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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 Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Buffer			
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), . alpha[Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus</i> <i>montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Enhancer			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
2X Amplification Mastermix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Active Loop of the might real water		50 110013

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hyb Wash Buffer 1				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28 days	20 mg/l	-
End Prep Enzyme				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme				
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Section 12. Ecolog	gical inform	nation			
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	-	-
2X Amplification Mastermix					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Nuclease-Free Water water	-		-		Readily
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-		-		Readily
Hyb Buffer					
tetramethylammonium chloride	-		-		Readily
Hyb Enhancer					
Formamide	-		-		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-2.03	-	Low
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer tetramethylammonium chloride Poly(oxy-1,2-ethanediyl), . alpha[<-1.6 2.7	- 78.67	Low Low
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Section 12. Ecological information					
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
Hyb Enhancer Formamide	-0.82	-	Low		
2X Amplification Mastermix Glycerol	-1.76	-	Low		

Mobility in soil				
Soil/water partition coefficient (K _{oc})	: Not available.			

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

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized 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 spilled material and
	runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

Special precautions for user	1	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

Canadian lists

Canadian NPRI

- : None of the components are listed.
- **CEPA Toxic substances**
- : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 15. Regulatory information

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

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Canada	: Not determined.
United States	: Not determined.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 04/11/2024
Date of previous issue	: 02/23/2024
Version	: 1.1
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations 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 UN = United Nations

Procedure used to derive the classification

Classification	Justification
End Prep Buffer AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method
End Prep Enzyme EYE IRRITATION - Category 2B	Calculation method
Ligation Enzyme EYE IRRITATION - Category 2B	Calculation method
Hyb Buffer ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method Calculation method
Hyb Enhancer CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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

Section 16. Other information

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.