#### Conforms to US OSHA Hazard Communication 29CFR1910.1200

# **SAFETY DATA SHEET**



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

#### Section 1. Identification

1.1 Product identifier		
Product name	: Avida DNA Reagent Kit with 1-96 Index Prim G9418A	ner Pairs for ILM, 96 reactions, Part Number
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	5282-0140
	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
	<u>Avida Index Primer Pairs 1 -96 for ILM</u> Avida Index Primer Pairs 1-96 for ILM	<u>5280-0055</u> 5274-0079
Validation date	: 4/11/2024	
1.2 Relevant identified use	es of the substance or mixture and uses advised	<u>d against</u>
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)
	Capture Beads	0.944 ml (96 reactions)
	Avida Index Primer Pairs 1-96 for ILM	96 x 0.005 ml
Uses advised against	: Not for use in diagnostic procedures.	

#### 1.3 Details of the supplier of the safety data sheet

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

#### Section 1. Identification

#### Supplier/Manufacturer

: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770

**1.4 Emergency telephone number** 

In case of emergency

: CHEMTREC®: 1-800-424-9300

# Section 2. Hazards identification

2.1 Classification of the	substance or mixture	
OSHA/HCS status	: Nuclease-Free Water	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Library Wash Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Hyb Wash Buffer 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Hyb Wash Buffer 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Resuspension Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	End Prep Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	End Prep Enzyme	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Ligation Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Ligation Enzyme	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Adapter for ILM	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

	Hyb Blocker	and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees	
	Hyb Buffer	and other users of this product. This material is considered hazardous by the OSHA	
	Hyb Enhancer	Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA	
	2X Amplification Mastermix	Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
	Library Binding Beads	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees	
	Capture Beads	and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
	Avida Index Primer Pairs 1-96 for ILM	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
Classification of the substar	<u>nce or mixture</u>		
End Prep Buffer H412	AQUATIC HAZARD (LONG	G-TERM) - Category 3	
End Prep Enzyme H320	EYE IRRITATION - Catego	EYE IRRITATION - Category 2B	
Ligation Enzyme H320	EYE IRRITATION - Category 2B		
<b>Hyb Buffer</b> 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 - Cat TOXIC TO REPRODUCTIO SPECIFIC TARGET ORGA		
Ingredients of unknown toxicity		Percentage of the mixture consisting of ingredient (s) of unknown acute oral toxicity: 1 - 10%	

Hyb Buffer

Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 3.4%

2.2 GHS label elements Hazard pictograms	: Hyb Buffer	
	Hyb Enhancer	
Signal word	<ul> <li>Nuclease-Free Water Library Wash Buffer</li> <li>Hyb Wash Buffer 1</li> <li>Hyb Wash Buffer 2</li> <li>Resuspension Buffer</li> <li>End Prep Buffer</li> <li>End Prep Enzyme</li> <li>Ligation Buffer</li> <li>Ligation Enzyme</li> <li>Adapter for ILM</li> <li>Hyb Blocker</li> <li>Hyb Buffer</li> <li>Hyb Enhancer</li> <li>2X Amplification Mastermix</li> <li>Library Binding Beads</li> <li>Capture Beads</li> <li>Avida Index Primer Pairs 1-96 for</li> </ul>	No signal word. No signal word. No signal word. No signal word. No signal word. Warning No signal word. Warning No signal word. No signal word. Danger Danger No signal word. No signal word.
Hazard statements	<ul> <li>Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer</li> <li>End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer</li> <li>Hyb Enhancer</li> <li>2X Amplification Mastermix</li> </ul>	No known significant effects or critical hazards. No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. H320 - Causes eye irritation. No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards. H302 - Causes eye irritation. No known significant effects or critical hazards. 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. 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) No known significant effects or critical hazards.
	Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

	ILM	
Precautionary statements		
	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	P273 - Avoid release to the environment.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P280 - Wear protective gloves.
		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	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs 1-96 for ILM	Not applicable.
Response	: Nuclease-Free Water	Not applicable.
	Library Wash Buffer	Not applicable.
	Hyb Wash Buffer 1	Not applicable.
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	P305 + P351 + P338 - IF IN EYES: Rinse
		cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
		rinsing.
		P337 + P313 - If eye irritation persists: Get medical
		advice or attention.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	P305 + P351 + P338 - IF IN EYES: Rinse
	0	cautiously with water for several minutes. Remove
		contact lenses, if present and easy to do. Continue
		rinsing.
		P337 + P313 - If eye irritation persists: Get medical
		advice or attention.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P308 + P311 - IF exposed: Call a POISON
		CENTER or doctor.
		P362 + P364 - Take off contaminated clothing and
		wash it before reuse.
		P302 + P352 - IF ON SKIN: Wash with plenty of
	Lud Enhancer	water.
	Hyb Enhancer	P308 + P313 - IF exposed or concerned: Get
	OV Amplification Masteria	medical advice or attention.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.

	Avida Index Primer Pairs 1-96 for ILM	Not applicable.
Storage	Nuclease-Free Water	Not applicable.
Otoruge	Library Wash Buffer	Not applicable.
		Not applicable.
	Hyb Wash Buffer 1	••
	Hyb Wash Buffer 2	Not applicable.
	Resuspension Buffer	Not applicable.
	End Prep Buffer	Not applicable.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	Not applicable.
	Hyb Enhancer	Not applicable.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs 1-96 for	Not applicable.
	ILM	
Disposal	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	P501 - Dispose of contents and container in
		accordance with all local, regional, national and
		international regulations.
	End Prep Enzyme	Not applicable.
	Ligation Buffer	Not applicable.
	Ligation Enzyme	Not applicable.
	Adapter for ILM	Not applicable.
	Hyb Blocker	Not applicable.
	Hyb Buffer	P501 - Dispose of contents and container in
		•
		accordance with all local, regional, national and
		international regulations.
	Hyb Enhancer	P501 - Dispose of contents and container in
		accordance with all local, regional, national and
		international regulations.
	2X Amplification Mastermix	Not applicable.
	Library Binding Beads	Not applicable.
	Capture Beads	Not applicable.
	Avida Index Primer Pairs 1-96 for	Not applicable.
<b>_</b>	ILM	
Supplemental label	Nuclease-Free Water	None known.
elements	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer	None known.
	End Prep Buffer	None known.
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker	None known.
	Hyb Buffer	None known.
	Hyb Enhancer	None known.
	2X Amplification Mastermix	None known.
	Library Binding Beads	None known.
	Capture Beads	None known.

Avida Index Primer Pairs 1-96 for None known. ILM

2.3 Other hazards		
Hazards not otherwise classified	: 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	None known. None known.

# Section 3. Composition/information on ingredients

Substance/mixture	:	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	Substance Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture Mixture
		Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	Mixture Mixture Mixture

Ingredient name	%	CAS number
Nuclease-Free Water		
water	100	7732-18-5
Hyb Wash Buffer 1		
Sodium dodecyl sulphate	≤0.3	151-21-3
Hyb Wash Buffer 2		
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	<0.1	9036-19-5

Avida DNA Reagent Kit with 1-96 Index Primer Pairs for ILM, 96 reactions, Part Number G9418A		
Section 3. Composition/information on ingredients		
End Prep Buffer		
Magnesium chloride	<2.5	7786-30-3
End Prep Enzyme		
Glycerol	≥50 - ≤75	56-81-5
Ligation Enzyme		
Glycerol	≥50 - ≤75	56-81-5
Hyb Buffer		
tetramethylammonium chloride	≥10 - <15	75-57-0
Dextran sulfate sodium	≤3	9011-18-1
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	<0.1	9036-19-5
Hyb Enhancer		
Formamide	≥90	75-12-7
2X Amplification Mastermix		
Glycerol	<10	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

4.1 Description of neo	<u>cessary 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 medical attention if irritation occurs.
	Library Wash Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Hyb Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Resuspension Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

	medical attention if irritation occurs.
End Prep Buffer	Immediately flush eyes with plenty of water,
·	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get
	medical attention if irritation occurs.
End Prep Enzyme	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses.
	Continue to rinse for at least 10 minutes. If
	irritation persists, get medical attention.
Ligation Buffer	Immediately flush eyes with plenty of water,
Ligation buller	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get medical attention if irritation occurs.
Linction Frances	
Ligation Enzyme	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses.
	Continue to rinse for at least 10 minutes. If
	irritation persists, get medical attention.
Adapter for ILM	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get
	medical attention if irritation occurs.
Hyb Blocker	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get
	medical attention if irritation occurs.
Hyb Buffer	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses.
	Continue to rinse for at least 10 minutes. Get
	medical attention. If necessary, call a poison
	center or physician.
Hyb Enhancer	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses.
	Continue to rinse for at least 10 minutes. Get
	medical attention.
2X Amplification Mastermix	Immediately flush eyes with plenty of water,
2X Amplification Mastermix	
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get
Libner Direliner Deede	medical attention if irritation occurs.
Library Binding Beads	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get
	medical attention if irritation occurs.
Capture Beads	Immediately flush eyes with plenty of water,
	occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get
	medical attention if irritation occurs.
Avida Index Primer Pairs 1-96 for	Immediately flush eyes with plenty of water,
ILM	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
	Hyb Wash Buffer 1	attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	Hyb Wash Buffer 2	attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	Resuspension Buffer	attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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	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
	Hyb Enhancer	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 medical attention if symptoms occur.
	Resuspension Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	End Prep Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	End Prep Enzyme	medical attention if symptoms occur. Flush contaminated skin with plenty of water.

	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly
	before reuse.
Ligation Buffer	Flush contaminated skin with plenty of water.
0	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Ligation Enzyme	Flush contaminated skin with plenty of water.
0	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur. Wash
	clothing before reuse. Clean shoes thoroughly
	before reuse.
Adapter for ILM	Flush contaminated skin with plenty of water.
	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Hyb Blocker	Flush contaminated skin with plenty of water.
	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Hyb Buffer	Flush contaminated skin with plenty of water.
	Remove contaminated clothing and shoes.
	Continue to rinse for at least 10 minutes. Get
	medical attention. If necessary, call a poison
	center or physician. Wash clothing before reuse.
	Clean shoes thoroughly before reuse.
Hyb Enhancer	Flush contaminated skin with plenty of water.
	Remove contaminated clothing and shoes. Wash
	contaminated clothing thoroughly with water before
	removing it, or wear gloves. Continue to rinse for at
	least 10 minutes. Get medical attention. Wash
	clothing before reuse. Clean shoes thoroughly
2X Amplification Mastermix	before reuse. Flush contaminated skin with plenty of water.
	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Library Binding Beads	Flush contaminated skin with plenty of water.
Library binding beads	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Capture Beads	Flush contaminated skin with plenty of water.
Captaro Boado	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Avida Index Primer Pairs 1-96 for	Flush contaminated skin with plenty of water.
ILM	Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
 Nuclease-Free Water	Wash out mouth with water. If material has been
	swallowed and the exposed person is conscious,
	give small quantities of water to drink. Do not
	induce vomiting unless directed to do so by medical
	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

Ingestion

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

Hyb Buffer	give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. 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
Hyb Enhancer	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. 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
2X Amplification Mastermix	immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
Library Binding Beads	personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Capture Beads	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Avida Index Primer Pairs 1-96 for ILM	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### <u>4.2 Most important symptoms/effects, acute and delayed</u> <u>Potential acute health effects</u>

Eye contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2 Resuspension Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	Causes eye irritation.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	Causes eye irritation.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
Inhalation	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker Hyb Buffer	No known significant effects or critical hazards.
		Causes damage to organs following a single exposure if inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
Skin contact	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker Hyb Buffer	No known significant effects or critical hazards.
		Causes damage to organs following a single exposure in contact with skin. Causes skin
		irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads Avida Index Primer Pairs 1-96 for	No known significant effects or critical hazards.
	ILM	No known significant effects or critical hazards.

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
	2	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 1-96 for	No known significant effects or critical hazards.
	ILM	0
Over-exposure signs/sympton	ne	
Eye 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	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Ligation Buffer	No specific data.
	Ligation Enzyme	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	Hyb Enhancer	No specific data.
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 1-96 for	No specific data.
	ILM	
Inhalation :	Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	No specific data.

	Hyb Enhancer	Adverse symptoms may include the following: reduced 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 1-96 for	No specific data.
	ILM	No specific data.
Skin contact	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		irritation redness
	Hyb Enhancer	Adverse symptoms may include the following:
	-	reduced 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 1-96 for ILM	No specific data.
Ingestion	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	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
	OV Amerilification Mantennis	skeletal malformations
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 1-96 for ILM	No specific data.

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

Notes to physician	: Nuclease-Free Water	Treat symptomatically. Contact poison treatment
Notes to physician		specialist immediately if large quantities have been
	Library Mach Duffer	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	-
	Lid Frep Lizyine	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
	Lingtion Duffer	ingested or inhaled.
	Ligation Buffer	In case of inhalation of decomposition products in a
		fire, symptoms may be delayed. The exposed
		person may need to be kept under medical
		surveillance for 48 hours.
	Ligation Enzyme	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
		ingested or inhaled.
	Adapter for ILM	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
		ingested or inhaled.
	Hyb Blocker	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
		ingested or inhaled.
	Hyb Buffer	In case of inhalation of decomposition products in a
	,	fire, symptoms may be delayed. The exposed
		person may need to be kept under medical
		surveillance for 48 hours.
	Hyb Enhancer	In case of inhalation of decomposition products in a
		fire, symptoms may be delayed. The exposed
		person may need to be kept under medical
		surveillance for 48 hours.
	2X Amplification Mastermix	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
		ingested or inhaled.
	Library Pinding Poodo	
	Library Binding Beads	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
	Conture Dr dr	ingested or inhaled.
	Capture Beads	Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been
		ingested or inhaled.
	Avida Index Primer Pairs 1-96 for	Treat symptomatically. Contact poison treatment
	ILM	specialist immediately if large quantities have been
		ingested or inhaled.

Specific treatments	: Nuclease-Free Water	No specific treatment.
	Library Wash Buffer	No specific treatment.
	Hyb Wash Buffer 1	No specific treatment.
	Hyb Wash Buffer 2	No specific treatment.
	Resuspension Buffer	No specific treatment.
	End Prep Buffer	No specific treatment.
	End Prep Enzyme	No specific treatment.
	Ligation Buffer	No specific treatment.
	Ligation Enzyme	No specific treatment.
	Adapter for ILM	No specific treatment.
	Hyb Blocker	No specific treatment.
	Hyb Buffer	No specific treatment.
	Hyb Enhancer	No specific treatment.
	2X Amplification Mastermix	No specific treatment.
	Library Binding Beads Capture Beads	No specific treatment.
	Avida Index Primer Pairs 1-96 for	No specific treatment.
	ILM	No specific treatment.
Protection of first-aiders	: Nuclease-Free Water	No action shall be taken involving any personal risk
		or without suitable training.
	Library Wash Buffer	No action shall be taken involving any personal risk
		or without suitable training.
	Hyb Wash Buffer 1	No action shall be taken involving any personal risk
		or without suitable training.
	Hyb Wash Buffer 2	No action shall be taken involving any personal risk
		or without suitable training.
	Resuspension Buffer	No action shall be taken involving any personal risk
	"	or without suitable training.
	End Prep Buffer	No action shall be taken involving any personal risk
		or without suitable training.
	End Prep Enzyme	No action shall be taken involving any personal risk
		or without suitable training. It may be dangerous to
		the person providing aid to give mouth-to-mouth
	Lingtion Duffer	resuscitation.
	Ligation Buffer	No action shall be taken involving any personal risk
	Lization Engine	or without suitable training.
	Ligation Enzyme	No action shall be taken involving any personal risk
		or without suitable training. It may be dangerous to
		the person providing aid to give mouth-to-mouth resuscitation.
	Adapter for ILM	No action shall be taken involving any personal risk
		or without suitable training.
	Hyb Blocker	No action shall be taken involving any personal risk
		or without suitable training.
	Hyb Buffer	No action shall be taken involving any personal risk
		or without suitable training. It may be dangerous to
		the person providing aid to give mouth-to-mouth
		resuscitation.
	Hyb Enhancer	No action shall be taken involving any personal risk
	,	or without suitable training. If it is suspected that
		fumes are still present, the rescuer should wear an
		appropriate mask or self-contained breathing
		apparatus. It may be dangerous to the person
		providing aid to give mouth-to-mouth resuscitation.
		Wash contaminated clothing thoroughly with water
		before removing it, or wear gloves.
	2X Amplification Mastermix	No action shall be taken involving any personal risk
	·	or without suitable training.
	Library Binding Beads	No action shall be taken involving any personal risk
		or without suitable training.

Capture Beads

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

U	•	
5.1 Extinguishing media		
Suitable extinguishing media	: Nuclease-Free Water	Use an extinguishing agent suitable for the surrounding fire.
	Library Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
	Resuspension Buffer	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Buffer	Use an extinguishing agent suitable for the surrounding fire.
	End Prep Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	Adapter for ILM	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Blocker	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Hyb Enhancer	Use an extinguishing agent suitable for the surrounding fire.
	2X Amplification Mastermix	Use an extinguishing agent suitable for the surrounding fire.
	Library Binding Beads	Use an extinguishing agent suitable for the surrounding fire.
	Capture Beads	Use an extinguishing agent suitable for the surrounding fire.
	Avida Index Primer Pairs 1-96 for ILM	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing	: Nuclease-Free Water	None known.
media	Library Wash Buffer	None known.
	Hyb Wash Buffer 1	None known.
	Hyb Wash Buffer 2	None known.
	Resuspension Buffer	None known.
	End Prep Buffer	None known.
	End Prep Enzyme	None known.
	Ligation Buffer	None known.
	Ligation Enzyme	None known.
	Adapter for ILM	None known.
	Hyb Blocker Hyb Buffer	None known. None known.
	Hyb Enhancer	None known.
	2X Amplification Mastermix	None known.
	Library Binding Beads	None known.
	Capture Beads	None known.
	1	

Avida Index Primer Pairs 1-96 for None known. ILM

#### 5.2 Special hazards arising from the substance or mixture

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.
nom me chemica	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
	End Prep Enzyme	any waterway, sewer or drain. 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
	Hyb Enhancer	any waterway, sewer or drain. 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
	Hyb Wash Buffer 1	metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Hyb Wash Buffer 2 Resuspension Buffer	No specific data. No specific data.

	3	
	End Prep Buffer	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides
		halogenated compounds
		metal oxide/oxides
	End Prep Enzyme	Decomposition products may include the following
		materials:
		carbon dioxide
	Lization Duffer	carbon monoxide
	Ligation Buffer	Decomposition products may include the following
		materials: carbon dioxide
		carbon monoxide
		nitrogen oxides
		halogenated compounds
	Ligation Enzyme	Decomposition products may include the following
		materials:
		carbon dioxide
		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
	Luch Enhancer	metal oxide/oxides
	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 1-96 for	No specific data.
	ILM	
5.3 Advice for firefighters		
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
		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 Buffer 1	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
Hyb Wash Buffer 2	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
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 action shall be taken involving any personal risk or
End Prep Buffer	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
End Prep Enzyme	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
Ligation Buffer	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
Ligation Enzyme	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No 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
Hyb Blocker	action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
Hyb Buffer	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or
Hyb Enhancer	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No
2X Amplification Mastermix	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
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.
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
	Resuspension Buffer	<ul> <li>(SCBA) with a full face-piece operated in positive pressure mode.</li> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive</li> </ul>
	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
	Library Binding Beads	(SCBA) with a full face-piece operated in positive 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	Fire-fighters should wear appropriate protective
ILM	equipment and self-contained breathing apparatus
	(SCBA) with a full face-piece operated in positive
	pressure mode.

	protective equipment and emerge	
For non-emergency	: Nuclease-Free Water	No action shall be taken involving any personal
personnel		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
	Library Weah Buffer	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
	Hyb Wash Buffar 1	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 protective equipment.
	Hyb Wash Buffer 2	No action shall be taken involving any personal
	Tiyo wash buller 2	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.
	Resuspension Buffer	No action shall be taken involving any personal
	Resuspension Dunei	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.
	End Prep Buffer	No action shall be taken involving any personal
		risk or without suitable training. Evacuate
		surrounding areas. Keep unnecessary and
		unprotected personnel from entering. Do not
		touch or walk through spilled material. Put on
		appropriate personal protective equipment.
	End Prep Enzyme	No action shall be taken involving any personal
		risk or without suitable training. Evacuate
		surrounding areas. Keep unnecessary and
		unprotected personnel from entering. Do not
		touch or walk through spilled material. Avoid
		breathing vapor or mist. Provide adequate
		ventilation. Wear appropriate respirator when
		ventilation is inadequate. Put on appropriate
		personal protective equipment.
	Ligation Buffer	No action shall be taken involving any personal
	Ligatori Ballor	risk or without suitable training. Evacuate
		non of manoat callable training. Evaluate

	unprotected personnel from entering. Do not touch or walk through spilled material. Put on
Ligation Enzyme	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. Avoid
	breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when
	ventilation is inadequate. Put on appropriate
Adapter for ILM	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 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 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 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.
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

	Avida Index Primer Pairs 1-96 for ILM	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal 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 information in "For non-emergency personnel".
	Library Wash Buffer	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
	Hyb Wash Buffer 1	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
	Hyb Wash Buffer 2	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
	Resuspension Buffer	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
	End Prep Buffer	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
	End Prep Enzyme	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
	Ligation Buffer	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
	Ligation Enzyme	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
	Adapter for ILM	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
	Hyb Blocker	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
	Hyb Buffer	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
	Hyb Enhancer	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
	2X Amplification Mastermix	the information in "For non-emergency personnel". If specialized clothing is required to deal with the

	Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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". 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". 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". 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".
6.2 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
	1	contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers,
		waterways, soil or air).
	Hyb Blocker	Avoid dispersal of spilled material and runoff and
	Tyb blocker	
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers,
		waterways, soil or air).
	Hyb Buffer	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.
	Hyb Enhancer	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).
	2X Amplification Mastermix	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 Binding Beads	Avoid dispersal of spilled material and runoff and
	Library Dinaing Deads	contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		caused environmental pollution (sewers,
	Conturo Boodo	waterways, soil or air).
	Capture Beads	Avoid dispersal of spilled material and runoff and
		contact with soil, waterways, drains and sewers.
		Inform the relevant authorities if the product has
		Inform the relevant authorities if the product has caused environmental pollution (sewers,
		Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Avida Index Primer Pairs 1-96 for	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and
	Avida Index Primer Pairs 1-96 for ILM	Inform the relevant authorities if the product has 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). Avoid dispersal of spilled material and runoff and
		Inform the relevant authorities if the product has 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). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
		Inform the relevant authorities if the product has 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,
6.3 Methods and materials for c	ILM	Inform the relevant authorities if the product has 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,
6.3 Methods and materials for c	ILM ontainment and cleaning up	Inform the relevant authorities if the product has 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).
	ILM	Inform the relevant authorities if the product has 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). Stop leak if without risk. Move containers from spill
	ILM ontainment and cleaning up	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> </ul>
	ILM ontainment and cleaning up	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> <li>Alternatively, or if water-insoluble, absorb with an</li> </ul>
	ILM ontainment and cleaning up	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> </ul>
	ILM ontainment and cleaning up	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> <li>Alternatively, or if water-insoluble, absorb with an</li> </ul>
	ILM ontainment and cleaning up	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>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).</li> <li>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</li> </ul>
	ILM ontainment and cleaning up Nuclease-Free Water	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> <li>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste</li> </ul>
	ILM ontainment and cleaning up	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>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).</li> <li>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 contractor.</li> <li>Stop leak if without risk. Move containers from spill area and place in an appropriate waste disposal contractor.</li> </ul>
	ILM ontainment and cleaning up Nuclease-Free Water	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> <li>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contractor.</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> </ul>
	ILM ontainment and cleaning up Nuclease-Free Water	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> <li>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contractor.</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> </ul>
	ILM ontainment and cleaning up Nuclease-Free Water	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>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).</li> <li>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 contractor.</li> <li>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 contractor.</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water and mop up if water-soluble.</li> </ul>
	ILM ontainment and cleaning up Nuclease-Free Water	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> <li>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contractor.</li> <li>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</li> </ul>

Hyb Wash Buffer 1	Stop leak if without risk. Move containers from spill
	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Hyb Wash Buffer 2	Stop leak if without risk. Move containers from spill
-	area. Dilute with water and mop up if water-soluble.
	Alternatively, or if water-insoluble, absorb with an
	inert dry material and place in an appropriate waste
	disposal container. Dispose of via a licensed waste
	disposal contractor.
Resuspension 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 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 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.

7.1 Precautions for safe ha	andling	
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

	Ligation Buffer	not reuse container. Put on appropriate personal protective equipment
	Lightion Englyma	(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.
	A denter for UNA	
Adapter for ILM Hyb Blocker Hyb Buffer		Put on appropriate personal protective equipment (see Section 8).
		Put on appropriate personal protective equipment (see Section 8).
	Hyb Buffer	Put on appropriate personal protective equipment
		(see Section 8). Do not get in eyes or on skin or
		clothing. Do not breathe 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 (see Section 8).
	Capture Beads	Put on appropriate personal protective equipment (see Section 8).
	Avida Index Primer Pairs 1-96 for ILM	Put on appropriate personal protective equipment (see Section 8).
Advice on general	: Nuclease-Free Water	Eating, drinking and smoking should be prohibited
occupational hygiene		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
Hyb Wash Buffer 1	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.
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 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 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 areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8
	for additional information on hygiene measures.
Ligation Enzyme	Eating, drinking and smoking should be prohibited
	in areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment before entering eating areas. See also Section 8
	for additional information on hygiene measures.
Adapter for ILM	Eating, drinking and smoking should be prohibited
	in areas where this material is handled, stored and
	processed. Workers should wash hands and face
	before eating, drinking and smoking. Remove
	contaminated clothing and protective equipment
	before entering eating areas. See also Section 8
	for additional information on hygiene measures.
Hyb Blocker	Eating, drinking and smoking should be prohibited
	in areas where this material is handled, stored and
	הו מופמס שחפופ נחוס חומנכחמו וס חמועופע, סנטופע מווע

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7.2 Conditions for safe storage, including any incompatibilities	: Nuclease-Free Water Library Wash Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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
	Avida Index Primer Pairs 1-96 for ILM	contaminated clothing and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	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
	Library Binding 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
	2X Amplification Mastermix	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face
	Hyb Enhancer	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
	Hyb Buffer	processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

	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
Hyb Wash Buffer 1	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
Hyb Wash Buffer 2	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid
Resuspension Buffer	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid
End Prep Buffer	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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

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

# Section 7. Handling and storage

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	Hyb Enhancer	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 incompatible materials before handling or use.
	2X Amplification Mastermix	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 1-96 for ILM	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.

## 7.3 Specific end use(s)

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## Section 7. Handling and storage

Recommendations	: Nuclease-Free Water	Industrial applications, Professional applications.
	Library Wash Buffer	Industrial applications, Professional applications.
	Hyb Wash Buffer 1	Industrial applications, Professional applications.
	Hyb Wash Buffer 2	Industrial applications, Professional applications.
	Resuspension Buffer	Industrial applications, Professional applications.
	End Prep Buffer	Industrial applications, Professional applications.
	End Prep Enzyme	Industrial applications, Professional applications.
	Ligation Buffer	Industrial applications, Professional applications.
	Ligation Enzyme	Industrial applications, Professional applications.
	Adapter for ILM	Industrial applications, Professional applications.
	Hyb Blocker	Industrial applications, Professional applications.
	Hyb Buffer	Industrial applications, Professional applications.
	Hyb Enhancer	Industrial applications, Professional applications.
	2X Amplification Mastermix	Industrial applications, Professional applications.
	Library Binding Beads	Industrial applications, Professional applications.
	Capture Beads	Industrial applications, Professional applications.
	Avida Index Primer Pairs 1-96 for	Industrial applications, Professional applications.
	ILM	
<ul> <li>Invalidation of the second state of the second state</li></ul>		
Industrial sector specific	: Nuclease-Free Water	Not available.
solutions	: Nuclease-Free Water Library Wash Buffer	Not available. Not available.
	Library Wash Buffer	Not available.
	Library Wash Buffer Hyb Wash Buffer 1	Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Not available. Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	Not available. Not available. Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	Not available. Not available. Not available. Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme	Not available. Not available. Not available. Not available. Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
	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	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
	Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer Ligation Buffer Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
	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	Not available. Not available.
	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	Not available. Not available.
	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	Not available. Not available.
	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 available. Not available.
	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	Not available. Not available.

# Section 8. Exposure controls/personal protection

## 8.1 Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Nuclease-Free Water	
water	None.
Hyb Wash Buffer 1	
Sodium dodecyl sulphate	None.
Hyb Wash Buffer 2	
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]	None.
omegahydroxy-	
End Prep Buffer	
Magnesium chloride	None.
End Prep Enzyme	
Glycerol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction

## Section 8. Exposure controls/personal protection

Section 8. Exposure controls/personal pr	otection
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
Ligation Enzyme Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
<b>Hyb Buffer</b> tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	None. None. None.
<b>Hyb Enhancer</b> Formamide	ACGIH TLV (United States, 1/2023). Absorbed through skin. TWA: 1 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 20 ppm 8 hours. TWA: 30 mg/m <sup>3</sup> 8 hours. STEL: 30 ppm 15 minutes. STEL: 45 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 10 ppm 10 hours. TWA: 15 mg/m <sup>3</sup> 10 hours. CAL OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 18 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
2X Amplification Mastermix Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018).

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## Section 8. Exposure controls/personal protection

fraction TWA: 10 mg/m³ 8 hours. Form: total dust		
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## **Biological exposure indices**

No exposure indices known.

8.2 Exposure controls		
Appropriate engineering controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosu 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 ensu- they comply with the requirements of environmental protection legislation. In som cases, fume scrubbers, filters or engineering modifications to the process equipm will be necessary to reduce emissions to acceptable levels.	ne
Individual protection measure		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, befeating, 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 showers are close to the workstation location.	ng.
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, mist gases or dusts. If contact is possible, the following protection should be worn, un the assessment indicates a higher degree of protection: safety glasses with side shields.	ts, nless
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard show worn at all times when handling chemical products if a risk assessment indicates necessary. Considering the parameters specified by the glove manufacturer, che 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 diffi- glove manufacturers. In the case of mixtures, consisting of several substances, to protection time of the gloves cannot be accurately estimated.	this is eck be ferent
Body protection	Personal protective equipment for the body should be selected based on the task performed and the risks involved and should be approved by a specialist before handling this product.	: being
Other skin protection	Appropriate footwear and any additional skin protection measures should be sele based on the task being performed and the risks involved and should be approve 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 importa aspects of use.	

## Section 9. Physical and chemical properties and safety characteristics

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

#### **Appearance**

Physical state	: Nuclease-Free Water	Liquid.
	Library Wash Buffer	Liquid.
	Hyb Wash Buffer 1	Liquid.
	Hyb Wash Buffer 2	Liquid.
	Resuspension Buffer	Liquid.
	End Prep Buffer	Liquid.
	End Prep Enzyme	Liquid.
	Ligation Buffer	Liquid.
	Ligation Enzyme	Liquid.
	Adapter for ILM	Liquid.
	Hyb Blocker	Liquid.
	Hyb Buffer	Liquid.
	Hyb Enhancer	Liquid.
	2X Amplification Mastermix	Liquid.
	Library Binding Beads	Liquid.
	Capture Beads	Liquid.
	Avida Index Primer Pairs 1-96 for	Liquid.
	ILM	
Color	: Nuclease-Free Water	Colorless.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	HybBlocker	Not available.
	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 1-96 for	Not available.
	ILM	
Odor	: Nuclease-Free Water	Odorless.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	HybBlocker	Not available.
	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 1-96 for	Not available.
	ILM	

Odor threshold	: Nuclease-Free Water	Not available.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	2X Amplification Mastermix	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 1-96 for ILM	Not available.
рН	: Nuclease-Free Water	7
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	7.2 to 7.6
	Hyb Wash Buffer 2	7.2 to 7.6
	Resuspension Buffer	8
	End Prep Buffer	8
	End Prep Enzyme	7.5
	Ligation Buffer	8
	Ligation Enzyme	7.5
	Adapter for ILM	8
	Hyb Blocker	8
	Hyb Buffer	7.5
	Hyb Enhancer	Not available.
	2X Amplification Mastermix	Not available.
	Library Binding Beads	8
	Capture Beads	Not available.
	Avida Index Primer Pairs 1-96 for ILM	8
Melting point/freezing point	: Nuclease-Free Water	0°C (32°F)
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	0°C (32°F)
	Resuspension Buffer	0°C (32°F)
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	0°C (32°F)
	Hyb Blocker	0°C (32°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 1-96 for	0°C (32°F)
	ILM	

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 1-96 for ILM	100°C (212°F)

#### Flash point

		Closed	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 2592
2X Amplification Mastermix						
Glycerol	-	-	-	177	350.6	-
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 Mas Library Binding Beads	termix	Na Na Na Na Na Na Na Na Na Na Na	t available. t available.			

**Evaporation rate** 

Flammability	1	Nuclease-Free Water	Not applicable.
		Library Wash Buffer	Not applicable.
		Hyb Wash Buffer 1	Not applicable.
		Hyb Wash Buffer 2	Not applicable.
		Resuspension Buffer	Not applicable.
		End Prep Buffer	Not applicable.
		End Prep Enzyme	Not applicable.
		Ligation Buffer	Not applicable.
		Ligation Enzyme	Not applicable.
		Adapter for ILM	Not applicable.
		Hyb Blocker	Not applicable.
		Hyb Buffer	Not applicable.
		Hyb Enhancer	Not applicable.
		2X Amplification Mastermix	Not applicable.
		Library Binding Beads	Not applicable.
		Capture Beads	Not applicable.
		Avida Index Primer Pairs 1-96 for ILM	Not applicable.
Lower and upper explosion	1	Nuclease-Free Water	Not available.
limit/flammability limit		Library Wash Buffer	Not available.
		Hyb Wash Buffer 1	Not available.
		Hyb Wash Buffer 2	Not available.
		Resuspension Buffer	Not available.
		End Prep Buffer	Not available.
		End Prep Enzyme	Not available.
		Ligation Buffer	Not available.
		Ligation Enzyme	Not available.
		Adapter for ILM	Not available.
		Hyb Blocker	Not available.
		Hyb Buffer	Not available.
		Hyb Enhancer	Not available.
		2X Amplification Mastermix	Not available.
		Library Binding Beads	Not available.
		Capture Beads	Not available.
		Avida Index Primer Pairs 1-96 for ILM	Not available.
Vapor pressure	1	Nuclease-Free Water	2.3 kPa (17.5 mm

#### Vapor pressure

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°		
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 2							
water	17.5	2.3	-	92.258	12.3	-	
Resuspension							
-							

2	and chemical	prope	erties	and safe	ety cha	aracte	ristics
	Buffer						
	water	17.5	2.3	-	92.258	12.3	-
	End Prep Buffer						
	water	17.5	2.3	-	92.258	12.3	-
	End Prep Enzyme						
	water	17.5	2.3	-	92.258	12.3	-
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Ligation Buffer						
	water	17.5	2.3	-	92.258	12.3	-
	Ligation Enzyme						
	water	17.5	2.3	-	92.258	12.3	-
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Adapter for ILM						
	water	17.5	2.3	-	92.258	12.3	-
	Hyb Blocker						
	water	17.5	2.3	-	92.258	12.3	-
	Hyb Buffer						
	water	17.5	2.3	-	92.258	12.3	-
	tetramethylammonium chloride	0.000000001	0.00000000013	EU A.4	-	-	-
	Hyb Enhancer						
	Formamide	0.045	0.006	-	-	-	-
	2X Amplification Mastermix						
	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
	Library Binding Beads						
	water	17.5	2.3	-	92.258	12.3	-

Section 9. Physical		hich	GIUCS		ety en	aracit	
	Capture Beads						
	water	17.5	2.3	-	92.258	12.3	-
	Avida Index Primer Pairs 1-96 for ILM						
	water	17.5	2.3	-	92.258	12.3	-
Relative vapor density :	Nuclease-Free Water Library Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mast Library Binding Beads Capture Beads Avida Index Primer Pa	termix	Not a Not a	[Air = 1] available. available. available. available. available. available. available. available. available. available. available. available. available. available. available. available. available. available.			
Relative density :	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 Mast Library Binding Beads Capture Beads Avida Index Primer Pa	termix	Not a Not a	available. available. available. available. available. available. available. available. available. available. available. available. available. available. available. available.			
Solubility(ies) :	Media Nuclease-Free Wate water	r		Result			
	Water Library Wash Buffer water Hyb Wash Buffer 1			Soluble Soluble			
	water Hyb Wash Buffer 2 water			Soluble Soluble			
	Resuspension Buffe water End Prep Buffer	ər		Soluble			
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<b>y</b>	ii and chemical prope					
	water	S	oluble			
	End Prep Enzyme		ماييامام			
	water Ligation Buffer	3	oluble			
	water		oluble			
	Ligation Enzyme	3	oluble			
	water		oluble			
	Adapter for ILM	3	oluble			
	water	G	oluble			
	Hyb Blocker	3	oluble			
	water		oluble			
	Hyb Buffer		oluble			
	water		oluble			
	Hyb Enhancer		oluble			
	water	9	oluble			
	Library Binding Beads					
	water	9	oluble			
	Capture Beads		olabio			
	water	s	oluble			
	Avida Index Primer Pairs 1-96					
	water		oluble			
Partition coefficient: n-	: Nuclease-Free Water	-1.38				
octanol/water	Library Wash Buffer	-1.38 Not appli	cable			
UCIAIIUI/WALEI	Hyb Wash Buffer 1	Not appli Not appli				
	Hyb Wash Buffer 2	Not appli				
	Resuspension Buffer	Not appli				
		End Prep Buffer Not applicable.				
	End Prep Enzyme Not applicable.					
	Ligation Buffer	Not appli				
	Ligation Enzyme	Not appli				
	Adapter for ILM	Not appli				
	Hyb Blocker	Not appli				
	Hyb Buffer	Not appli				
	Hyb Enhancer	Not appli	plicable.			
	2X Amplification Mastermix	Not appli				
	Library Binding Beads	Not appli	Not applicable. Not applicable.			
	Capture Beads	Not appli				
	Avida Index Primer Pairs 1-96 for	or Not appli	cable.			
	ILM					
Auto-ignition temperature	: Ingredient name	°C	°F	Method		
	End Prep Enzyme					
	End Frep Enzyme					
	Glycerol	370	698	_		
		010				
	Ligation Enzyme					
	Glycerol	370	698	-		
	Hyb Enhancer					
	Formomido	>500	<b>\</b> 022	ASTM D 2155 66		
	Formamide	>500	>932	ASTM D 2155-66		
			1	1		
	2X Amplification Mastermix					
	2X Amplification Mastermix					
	2X Amplification Mastermix Glycerol	370	698	_		

	i ana ononnoai propor	
Decomposition temperature	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for ILM	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 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 Median particle size	: 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 applicable. Not applicable.

	• •	
10.1 Reactivity	: Nuclease-Free Water	No specific test data related to reactivity available
	Library March Duffer	for this product or its ingredients.
	Library Wash Buffer	No specific test data related to reactivity available
	Hyb Wash Buffer 1	for this product or its ingredients. 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
	Tiyb Wash Duller 2	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
	g	for this product or its ingredients.
	Ligation Enzyme	No specific test data related to reactivity available
	g,	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 1-96 for	No specific test data related to reactivity available
	ILM	for this product or its ingredients.
10.2 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 1-96 for ILM	The product is stable.

	y and reactivity	
10.3 Possibility of hazardous reactions	: Nuclease-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	Library Wash Buffer	Under normal conditions of storage and use,
	Hyb Wash Buffer 1	hazardous reactions will not occur. 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,
	End Prep Buffer	hazardous reactions will not occur.
		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,
	5	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,
	Live Duffer	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 1-96 for	Under normal conditions of storage and use,
	ILM	hazardous reactions will not occur.
10.4 Conditions to avoid	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM Hyb Blocker	No specific data. No specific data.
	Hyb Buffer	No specific data.
	Hyb Enhancer	No specific data.
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 1-96 for	No specific data.
	ILM	

Section 10. Stabi	nty and reactivity	
10.5 Incompatible materials	Nuclease-Free Water	May react or be incompatible with oxidizing
	Library Wash Buffer	materials. May react or be incompatible with oxidizing materials.
	Hyb Wash Buffer 1	May react or be incompatible with oxidizing
	Hyb Wash Buffer 2	materials. May react or be incompatible with oxidizing
	Resuspension Buffer	materials. May react or be incompatible with oxidizing
	End Prep Buffer	materials. May react or be incompatible with oxidizing materials.
	End Prep Enzyme	May react or be incompatible with oxidizing
	Ligation Buffer	materials. May react or be incompatible with oxidizing materials.
	Ligation Enzyme	May react or be incompatible with oxidizing materials.
	Adapter for ILM	Materials. 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 f ILM	or May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Nuclease-Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Library Wash Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hyb Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be
	Hyb Wash Buffer 2	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	Resuspension Buffer	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	End Prep Buffer	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	End Prep Enzyme	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	Ligation Buffer	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	Ligation Enzyme	produced. Under normal conditions of storage and use,
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L		

	hazardous decomposition products should not be produced.
Adapter for ILM	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
Hyb Blocker	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
Hyb Buffer	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
Hyb Enhancer	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
2X Amplification Mastermix	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
Library Binding Beads	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
Capture Beads	Under normal conditions of storage and use,
	hazardous decomposition products should not be produced.
Avida Index Primer Pairs 1-96 for	Under normal conditions of storage and use,
ILM	hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## 11.1 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), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[				
(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
End Prep Buffer				
Magnesium chloride	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
	LD50 Oral	Female	2800 mg/kg	
	LD50 Orai	Rat	2800 mg/kg	-
End Prep Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	_
Clycerol		i lui	12000 mg/kg	
Hyb Buffer				
tetramethylammonium	LD50 Dermal	Rabbit - Male,	200 to 500 mg/kg	-
chloride	LD50 Oral	Female Rat	50 malka	
Dextran sulfate sodium	LD50 Oral	Rat	50 mg/kg 20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[				
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	in texteelegieur methatien						
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-							
Hyb Enhancer							
Formamide	LC50 Inhalation Dusts and mists		>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	-
	Skin - Mild irritant	Rabbit	_	mg 24 hours 50	-
		Rabbit	-	mg	-
	Skin - Moderate irritant	Mouse	_	24 hours 25	-
		medee		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	
Hyb Wash Buffer 2					
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[					
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
End Prep Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
		T CODDIC		mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Ligation Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Okin Mild imitant	Dabbit		mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Hyb Buffer					
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[	,				
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
2X Amplification Mastermix		5			
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Dabb <sup>it</sup>		mg 24 hours 500	
		Rabbit	-		-
				mg	

## **Sensitization**

Not available.

Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
Teratogenicity	
<b>Conclusion/Summary</b>	: Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hyb Wash Buffer 1			
Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
Hyb Buffer			
tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)
Dextran sulfate sodium	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<b>Hyb Enhancer</b> Formamide	Category 2	oral	blood

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure	: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer	Not available. Not available. Not available. Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	End Prep Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Ligation Buffer	Not available.
	Ligation Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Adapter for ILM	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Blocker	Not available.
	Hyb Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Hyb Enhancer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	2X Amplification Mastermix Library Binding Beads	Not available. Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs 1-96 for ILM	Not available.

#### Potential acute health effects

	egica menutori	
Eye contact :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme Ligation Buffer	Causes eye irritation. No known significant effects or critical hazards.
	Ligation Enzyme	Causes eye irritation.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
Inhalation :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker Hyb Buffer	No known significant effects or critical hazards. Causes damage to organs following a single
		exposure if inhaled.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
Skin contact :	Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
	End Prep Enzyme Ligation Buffer	No known significant effects of critical hazards.
	Ligation Enzyme	No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	Causes damage to organs following a single
		exposure in contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.

Ingestion	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Ŵash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	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 1-96 for	No known significant effects or critical hazards.
	ILM	
ymptoms related to t	he physical, chemical and toxicological ch	aracteristics
Eye 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	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Ligation Puffor	
	Ligation Buffer	No specific data.
	Ligation Enzyme	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	Hyb Enhancer	No specific data.
	2X Amplification Mastermix	No specific data.
	Library Binding Beads	No specific data.
	Capture Beads	No specific data.
	Avida Index Primer Pairs 1-96 for	No specific data.
	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	NU Specific uala.
	End Prep Buffer End Prep Enzyme	No specific data. No specific data.
	End Prep Enzyme	No specific data.
	End Prep Enzyme Ligation Buffer	No specific data. No specific data.
	End Prep Enzyme Ligation Buffer Ligation Enzyme	No specific data. No specific data. No specific data.
	End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	No specific data. No specific data. No specific data. No specific data.
	End Prep Enzyme Ligation Buffer Ligation Enzyme	No specific data. No specific data. No specific data.

	blogical information	
	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 1-96 for	No specific data.
	ILM	
Skin contact	: Nuclease-Free Water	No specific data.
	Library Wash Buffer	No specific data.
	Hyb Wash Buffer 1	No specific data.
	Hyb Wash Buffer 2	No specific data.
	Resuspension Buffer	No specific data.
	End Prep Buffer	No specific data.
	End Prep Enzyme	No specific data.
	Ligation Buffer	No specific data.
	Ligation Enzyme	No specific data.
	Adapter for ILM	No specific data.
	Hyb Blocker	No specific data.
	Hyb Buffer	Adverse symptoms may include the following:
		irritation
		redness
	Hyb Enhancer	Adverse symptoms may include the following:
		reduced 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 1-96 for ILM	No specific data.
Ingestion	: Nuclease-Free Water	No specific data.
<b>5</b> • • • •	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 1-96 for	No specific data.
	ILM	
Delayed and immediate effect	ts and also chronic effects from sho	ort and long term exposure
Short term exposure		
Potential immediate	: Not available.	
effects		
Potential delayed effects	: Not available.	
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<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health effe	<u>ects</u>	
General	: 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 Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards. May cause damage to organs through prolonged or
		repeated exposure.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for	No known significant effects or critical hazards.
	ILM	J. J
Carcinogenicity	: 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 Ligation Enzyme	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Adapter for ILM	No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	Suspected of causing cancer. Risk of cancer
	, ,	depends on duration and level of exposure.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
Mutagenicity	: Nuclease-Free Water	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	End Prep Buffer	No known significant effects or critical hazards.
	End Prep Enzyme	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Ligation Enzyme Adapter for ILM	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Hyb Blocker	No known significant effects or critical hazards.
	Hyb Buffer	No known significant effects or critical hazards.
	Hyb Enhancer	No known significant effects or critical hazards.
	2X Amplification Mastermix	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	•	~

Avida Index Primer Pairs 1-96 for No known significant effects or critical hazards.

- Nuclease-Free Water **Reproductive toxicity** 2 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. May damage fertility or the unborn child. 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.

#### 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/ I)
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
·			-		
End Prep Enzyme					
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
1 official de	0010	11000			
		<u> </u>			<u> </u>

bection in rovicological informa					
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

Adapter for ILM

Hyb Enhancer

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

## 12.1 Toxicity

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	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - <i>Pseudosida</i> <i>ramosa</i> - Neonate	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
<b>Hyb Wash Buffer 2</b> Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl)	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
ohenyl]omegahydroxy-	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus 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
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 - Daphnia hyalina - 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

Section 12. Ecological information				
Ligation Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours	
Hyb Buffer	Aguta L CEO 462 mg/l Erach water	Fish Dimenholes promotes	96 hours	
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	90 110015	
Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours	
	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus 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	

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hyb Wash Buffer 1				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	95 % - Readily - 28 days	20 mg/l	-
End Prep Enzyme				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Hyb Enhancer				
Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
2X Amplification Mastermix				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

	<u> </u>		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-	-	Readily
<b>Hyb Buffer</b> tetramethylammonium chloride	-	-	Readily
<b>Hyb Enhancer</b> Formamide	-	-	Readily

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	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	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[ (1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
phenyijomeganyuloxy-			
<b>Hyb Enhancer</b> Formamide	-0.82	-	Low
<b>2X Amplification Mastermix</b> Glycerol	-1.76	-	Low

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

12.5 Other adverse effects

: No known significant effects or critical hazards.

Date of issue :	04/11/2024
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## Section 13. Disposal considerations

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

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

## Section 15. Regulatory information

15.1 Safety, health and enviro	onmental regulations/legislation specific for the substance or mixture
U.S. Federal regulations	: TSCA 5(a)2 proposed significant new use rules: Nonylphenol, ethoxylated
	<b>TSCA 8(a) PAIR</b> : Formamide; Poly(oxy-1,2-ethanediyl), .alpha[ (1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-; Nonylphenol, ethoxylated; Polyoxyethylene octyl phenyl ether
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed

## Section 15. Regulatory information

**DEA List II Chemicals** (Essential Chemicals) : Not listed

## SARA 302/304

#### **Composition/information on ingredients**

				SARA 302	TPQ	SARA 30	4 RQ
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
<b>Capture Beads</b> Sodium azide		<0.1	Yes.	500	-	1000	-
SARA 304 RQ	: 68000000 lbs	/ 30872000 kg	J				
SARA 311/312							
Classification	<ul> <li>Nuclease-Free W Library Wash Buffer Hyb Wash Buffer Resuspension Bu End Prep Buffer End Prep Enzym Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer</li> <li>Hyb Enhancer</li> <li>2X Amplification Library Binding B Capture Beads</li> </ul>	ffer 1 2 uffer e Mastermix leads		Not applicable EYE IRRITATI Not applicable ACUTE TOXIC SKIN IRRITAT SPECIFIC TAF Category 1 CARCINOGEN TOXIC TO REI SPECIFIC TAF EXPOSURE) - Not applicable Not applicable	ON - Category 2 ON - Category 2 ON - Category 2 ITY (oral) - Cate ION - Category 2 RGET ORGAN T ICITY - Categor PRODUCTION - RGET ORGAN T Category 2	B 2 OXICITY (SIN y 2 Category 1B	GLE EXPOSURE) PEATED
Composition/informat		er Pairs 1-96 for II	_1VÍ	Not applicable			

Name	%	Classification
End Prep Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Ligation Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
<b>Hyb Buffer</b> tetramethylammonium chloride	≥10 - <15	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Dextran sulfate sodium	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
<b>Hyb Enhancer</b> Formamide	≥90	CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
<b>2X Amplification Mastermix</b> Glycerol	<10	EYE IRRITATION - Category 2B

**SARA 313** 

# Section 15. Regulatory information

	Product name	CAS number	%
Supplier notification	<b>Hyb Enhancer</b> Formamide	75-12-7	≥90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

New York: None of the components are listed.New Jersey: The following components are listed: GLYCERIN; FORMAMIDE	Massachusetts	: The following components are listed: GLYCERINE MIST; FORMAMIDE
New Jersey : The following components are listed: GLYCERIN; FORMAMIDE	New York	: None of the components are listed.
	New Jersey	: The following components are listed: GLYCERIN; FORMAMIDE
Pennsylvania         : The following components are listed: 1,2,3-PROPANETRIOL; FORMAMIDE	Pennsylvania	: The following components are listed: 1,2,3-PROPANETRIOL; FORMAMIDE
California Prop. 65	<u>California Prop. 65</u>	

This product does not require a Safe Harbor warning under California Prop. 65.

#### 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.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

## Section 16. Other information

## 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	y 2B	Calculation method
Hyb Buffer		
ACUTE TOXICITY (oral) - C	ategory 4	Calculation method
SKIN IRRITATION - Category 2		Calculation method
	TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-	TERM) - Category 3	Calculation method
Hyb Enhancer		
CARCINOGENICITY - Categoria	gory 2	Calculation method
TOXIC TO REPRODUCTIO		Calculation method
SPECIFIC TARGET ORGAN	N TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
<u>History</u>		·
Date of issue/Date of	: 04/11/2024	
revision		
Date of previous issue	: 02/23/2024	
Version	: 1.1	

Version	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations

✓ Indicates information that has changed from previously issued version.

## Notice to reader

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