SAFETY DATA SHEET



Avida DNA Reagent Kit with 1-16 Index Primer Pairs for ILM, 16 Reactions, Part Number G9409A

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

: Avida DNA Reagent Kit with 1-16 Index Primer Pairs for ILM, 16 Reactions, Part **Product name**

Number G9409A

CAS number : Nuclease-Free Water 7732-18-5

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hvb Blocker Not applicable. Hyb Buffer Hyb Enhancer Not applicable.

Mastermix

2X Amplification

Library Binding Beads Not applicable. Capture Beads Not applicable. Index Primer Mix for ILM Not applicable.

Index Primer Mix for ILM Not applicable.

9-16

Part no. (chemical kit)

: G9409A

Part no.

: Avida DNA and Duo Reagent Box 2, 16 5282-0141

Not applicable.

reactions Nuclease-Free Water 5271-0107 Library Wash Buffer 5271-0103 Hyb Wash Buffer 1 5271-0104 Hyb Wash Buffer 2 5271-0105 Resuspension Buffer 5271-0106 Avida DNA Reagent Box 1, 16 Reactions 5282-0139 **End Prep Buffer** 5271-0094 End Prep Enzyme 5271-0095 Ligation Buffer 5271-0096 Ligation Enzyme 5271-0097 Adapter for ILM 5271-0112 Hyb Blocker 5271-0099 Hyb Buffer 5271-0100 Hvb Enhancer 5271-0101 2X Amplification Mastermix 5271-0102 Avida Beads Box, 16 Reactions 5282-0143 Library Binding Beads 5271-0108 Capture Beads 5271-0109 Avida Index Primer Pairs 1-16 for ILM 5280-0052 Index Primer Mix for ILM 1-8 5274-0075

5274-0076

1.2 Relevant identified uses of the substance or mixture and uses advised against

Index Primer Mix for ILM 9-16

Identified uses : Analytical reagent. For research use only.

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

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 Mastermi

2X Amplification Mastermix Library Binding Beads Capture Beads

Index Primer Mix for ILM 1-8 Index Primer Mix for ILM 9-16

Uses advised against: Not for use in diagnostic procedures.

0.88 ml (16 reactions) 6.336 ml (16 reactions) 2 x 5.280 ml (16 reactions) 2 x 2.64 ml (16 reactions) 0.352 ml (16 reactions) 0.124 ml (16 reactions) 0.053 ml (16 reactions) 0.44 ml (16 reactions) 0.106 ml (16 reactions) 0.088 ml (16 reactions) 0.044 ml (16 reactions) 0.81 ml (16 reactions) 0.132 ml (16 reactions) 0.44 ml (16 reactions) 1.532 ml (16 reactions) 0.141 ml (16 reactions)

8 x 0.005 ml 8 x 0.005 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000

e-mail address of person

: pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

: Nuclease-Free Water

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition

Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Resuspension Buffer Mixture **End Prep Buffer** Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hvb Buffer Mixture Hvb Enhancer Mixture 2X Amplification Mixture

Mastermix

Library Binding Beads Mixture
Capture Beads Mixture
Index Primer Mix for ILM Mixture

1-8

Index Primer Mix for ILM Mixture

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Mono-constituent substance

SECTION 2: Hazards identification

Classification	according to	Dogulation	/EC\ No	1272/2008 [CLP/GHS]
Classification	according to	Redulation	IECI NO.	12/2/2000 ICLP/GHSI

End Prep Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

Hyb Buffer

H302 ACUTE TOXICITY (oral) Category 4
H315 SKIN CORROSION/IRRITATION Category 2
H370 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE Category 1
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

Hyb Enhancer

H351CARCINOGENICITYCategory 2H360REPRODUCTIVE TOXICITYCategory 1BH373SPECIFIC TARGET ORGAN TOXICITY - REPEATEDCategory 2

EXPOSURE

Nuclease-Free Water The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Library Wash Buffer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Hyb Wash Buffer 1 The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Hyb Wash Buffer 2 The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Resuspension Buffer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

End Prep Buffer The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

End Prep Enzyme The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Ligation Buffer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Ligation Enzyme The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Adapter for ILM The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Hyb Blocker The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Hyb Buffer The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

Hyb Enhancer The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

2X Amplification Mastermix The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Library Binding Beads The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Capture Beads The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Index Primer Mix for ILM 1-8 The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Index Primer Mix for ILM 9-16 The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Ingredients of unknown

toxicity

: Library Wash Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

Hyb Wash Buffer 1 Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

End Prep Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

End Prep Enzyme Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Ligation Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Ligation Enzyme Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

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SECTION 2: Hazards identification

Hyb Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: 1 - 10%

Hyb Enhancer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

2X Amplification Mastermix Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Library Binding Beads Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Ingredients of unknown ecotoxicity

: Hyb Buffer

Contains 3.4% of components with unknown hazards to the

aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : Hyb Buffer





Hyb Enhancer



Signal word

: Nuclease-Free Water No signal word. Library Wash Buffer No signal word. Hyb Wash Buffer 1 No signal word. Hyb Wash Buffer 2 No signal word. Resuspension Buffer No signal word. End Prep Buffer No signal word. End Prep Enzyme No signal word. Ligation Buffer No signal word. No signal word. Ligation Enzyme Adapter for ILM No signal word. Hyb Blocker No signal word. Danger Hyb Buffer Danger

Hyb Enhancer 2X Amplification

Mastermix

Library Binding Beads Capture Beads

Index Primer Mix for ILM

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No signal word. No signal word.

No signal word.

No signal word.

Index Primer Mix for ILM

No signal word.

Hazard statements

No known significant effects or critical hazards. Nuclease-Free Water 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. No known significant effects or critical hazards. Resuspension Buffer End Prep Buffer H412 - Harmful to aquatic life with long lasting effects. End Prep Enzyme

No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Ligation Enzyme Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards.

Hyb Buffer H302 - Harmful if swallowed.

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SECTION 2: Hazards identification

H315 - Causes skin irritation.

H370 - Causes damage to organs.

H412 - Harmful to aquatic life with long lasting effects.

Hyb Enhancer H351 - Suspected of causing cancer.

H360 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or

repeated exposure.

2X Amplification

Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM

1-8

Index Primer Mix for ILM

9-16

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.

No known significant effects or critical hazards.

Precautionary statements

Prevention

Nuclease-Free Water
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Not applicable.
Not applicable.
Not applicable.
Not applicable.

End Prep Buffer P273 - Avoid release to the environment.

End Prep Enzyme
Ligation Buffer
Not applicable.
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Hyb Buffer P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

P270 - Do not eat, drink or smoke when using this product.

Hyb Enhancer P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye

or face protection.

P260 - Do not breathe vapour. Not applicable.

2X Amplification

Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM 1-8

1-0

Index Primer Mix for ILM

9-16

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Response

: Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Not applicable. Resuspension Buffer End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Adapter for ILM Not applicable. Hyb Blocker Not applicable.

Hyb Buffer P308 + P311 - IF exposed or concerned: Call a POISON

CENTER or doctor.

Hyb Enhancer P308 + P313 - IF exposed or concerned: Get medical advice

or attention. Not applicable.

2X Amplification

Mastermix

Library Binding Beads Capture Beads Not applicable.
Not applicable.

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SECTION 2: Hazards identification

Index Primer Mix for ILM Not applicable. 1-8

Index Primer Mix for ILM Not applicable.

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Storage : Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable.

Not applicable. Hyb Wash Buffer 2 Resuspension Buffer Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Hyb Blocker Not applicable. Not applicable. Hyb Buffer Hyb Enhancer Not applicable. 2X Amplification Not applicable.

Mastermix

Library Binding Beads Not applicable. Capture Beads Not applicable.

Index Primer Mix for ILM Not applicable.

1-8

Index Primer Mix for ILM Not applicable.

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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. Not applicable. Ligation Buffer Not applicable. Ligation Enzyme 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. P501 - Dispose of contents and container in accordance

Hyb Enhancer with all local, regional, national and international regulations.

2X Amplification Not applicable.

Mastermix

Library Binding Beads

Not applicable. Not applicable. Capture Beads Not applicable. Index Primer Mix for ILM

Index Primer Mix for ILM Not applicable.

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Hazardous ingredients : Hyb Buffer

tetramethylammonium chloride

Hyb Enhancer formamide

Supplemental label elements

: Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer **End Prep Buffer** Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Not applicable. Hyb Blocker

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SECTION 2: Hazards identification

Hyb Buffer Not applicable.
Hyb Enhancer Not applicable.
2X Amplification Not applicable.
Mastermix

Library Binding Beads Not applicable.
Capture Beads Not applicable.

Index Primer Mix for ILM Not applicable.

-8

Index Primer Mix for ILM

Not applicable.

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Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Not applicable. Resuspension Buffer Not applicable. **End Prep Buffer** End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable.

Hyb Enhancer Restricted to professional users.

Not applicable.

2X Amplification

Mastermix

Library Binding Beads Not applicable.
Capture Beads Not applicable.
Index Primer Mix for ILM Not applicable.

1-8

Index Primer Mix for ILM Not applicable.

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Special packaging requirements

Tactile warning of danger

: Nuclease-Free Water Not applicable. Library Wash Buffer Not applicable. Not applicable. Hvb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Not applicable. Hyb Enhancer Not applicable. 2X Amplification Mastermix Library Binding Beads Not applicable. Capture Beads Not applicable. Not applicable. Index Primer Mix for ILM Index Primer Mix for ILM Not applicable.

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2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	vP	vB	
Nuclease- Free Water							
Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A	

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SECTION 2: Hazards identification

Library Wash Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Hyb Wash Buffer 1 This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Hyb Wash Buffer 2 This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Resuspension Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB. **End Prep Buffer** This mixture does not contain any substances that are assessed to be a PBT or a vPvB. End Prep Enzyme This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Ligation Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Ligation Enzyme This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Adapter for ILM This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Hyb Blocker This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are Hyb Buffer assessed to be a PBT or a vPvB. Hyb Enhancer This mixture does not contain any substances that are assessed to be a PBT or a vPvB. 2X Amplification This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Mastermix Library Binding Beads This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Capture Beads This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

assessed to be a PBT or a vPvB.

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

This mixture does not contain any substances that are

Index Primer Mix for ILM

Other hazards which do

not result in

classification

Index Primer Mix for ILM 9-16

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 Hvb Buffer Hvb Enhancer 2X Amplification Mastermix

Library Binding Beads

Capture Beads Index Primer Mix for ILM

1-8

Index Primer Mix for ILM

9-16

None known. None known.

None known. None known. None known.

None known. None known.

None known.

None known.

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SECTION 3: Composition/information on ingredients

Index Primer Mix for ILM 9-16 Mixture	3.1 Substances	: 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 Index Primer Mix for ILM 1-8	Mono-constituent substance Mixture
			Mixture

	index Primer Mix 101	12.01 0 10	Mixture		
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Nuclease-Free Water					
water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	-	[1]
End Prep Buffer					
magnesium chloride	EC: 232-094-6 CAS: 7786-30-3	<2.5	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
End Prep Enzyme					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Ligation Enzyme					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Hyb Buffer					
tetramethylammonium chloride	EC: 200-880-8 CAS: 75-57-0	≥10 - <15	Acute Tox. 2, H300 Acute Tox. 3, H311 Skin Irrit. 2, H315 STOT SE 1, H370 (central nervous system (CNS)) (oral) Aquatic Chronic 2, H411	ATE [Oral] = 50 mg/ kg ATE [Dermal] = 300 mg/kg	[1]
Dextran sulfate sodium	CAS: 9011-18-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
	1			l	

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SECTION 3: Composition/information on ingredients

Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	CAS: 9036-19-5	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 1	[1] [2]
Hyb Enhancer					
formamide	EC: 200-842-0 CAS: 75-12-7	≥90	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral)	-	[1] [2]
2X Amplification Mastermix					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

Nuclease-Free Water [1] Constituent

End Prep Buffer [1] Substance classified with a health or environmental hazard

End Prep Enzyme [1] Substance with a workplace exposure limit Ligation Enzyme [1] Substance with a workplace exposure limit

Hyb Buffer [1] Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

Hyb Enhancer [1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[1] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

2X Amplification Mastermix

Eye contact : Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

End Prep Buffer

End Prep Enzyme

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

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Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

2X Amplification

Capture Beads

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Library Binding Beads

Mastermix

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SECTION 4: First aid measures

any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. 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. Index Primer Mix 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. Index Primer Mix 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

Inhalation

: Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

End Prep Buffer

End Prep Enzyme

Ligation Buffer

symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

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SECTION 4: First aid measures

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. Get medical attention if

symptoms occur.

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 for 48 hours.

Hyb Enhancer Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

2X Amplification Remove victim to fresh air and keep at rest in a position Mastermix 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.

Index Primer Mix for ILM

1-8

Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Index Primer Mix for ILM

9-16

Skin contact

Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

: Nuclease-Free Water

Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Library Wash Buffer Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Hyb Wash Buffer 1 Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Hyb Wash Buffer 2 Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Resuspension Buffer Flush contaminated skin with plenty of water. Remove

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contaminated clothing and shoes. Get medical attention if

symptoms occur.

End Prep Buffer Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

End Prep Enzyme Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ligation Buffer Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ligation Enzyme Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

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 before reuse.

2X Amplification

Mastermix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Library Binding Beads Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Capture Beads Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Index Primer Mix for ILM

1-8

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Index Primer Mix for ILM

9-16

Ingestion

Flush contaminated skin with plenty of water. 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 occur.

Hyb Wash Buffer 2 Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to

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do so by medical personnel. Get medical attention if

symptoms occur.

Wash out mouth with water. If material has been swallowed Resuspension Buffer

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. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Wash out mouth with water. If material has been swallowed Ligation Buffer

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Wash out mouth with water. If material has been swallowed Ligation Enzyme

> 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.

Adapter for ILM Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Hyb Blocker Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Hyb Buffer Wash out mouth with water. Remove dentures if any. If

> material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If

material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low

so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

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Hyb Enhancer

2X Amplification

Mastermix

SECTION 4: First aid measures

Library Binding Beads Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Capture Beads Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Index Primer Mix 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.

Index Primer Mix for ILM

9-16

9-16

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.

Protection of first-aiders

No action shall be taken involving any personal risk or : Nuclease-Free Water

without suitable training.

No action shall be taken involving any personal risk or Library Wash Buffer

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.

No action shall be taken involving any personal risk or Resuspension Buffer

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.

Ligation Buffer No action shall be taken involving any personal risk or

without suitable training.

No action shall be taken involving any personal risk or Ligation Enzyme

without suitable training.

No action shall be taken involving any personal risk or Adapter for ILM

without suitable training.

No action shall be taken involving any personal risk or Hyb Blocker

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 No action shall be taken involving any personal risk or Mastermix

without suitable training.

Library Binding Beads No action shall be taken involving any personal risk or

without suitable training.

Capture Beads No action shall be taken involving any personal risk or

without suitable training.

Index Primer Mix for ILM No action shall be taken involving any personal risk or

without suitable training.

Index Primer Mix for ILM No action shall be taken involving any personal risk or

without suitable training.

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

Eye contact

Inhalation

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix

Library Binding Beads Capture Beads

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

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

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM 9-16

Nuclease-Free Water

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

End Prep Buffer

End Prep Enzyme Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Enhancer 2X Amplification

Hyb Buffer

Mastermix

Resuspension Buffer

Skin contact

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. 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. 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. 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. No known significant effects or critical hazards.

Causes damage to organs following a single exposure if

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. 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. 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. 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. No known significant effects or critical hazards.

Causes damage to organs following a single exposure in

contact with skin. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Library Binding Beads Capture Beads No known significant effects or critical hazards.

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Index Primer Mix for ILM

No known significant effects or critical hazards.

Index Primer Mix for ILM

No known significant effects or critical hazards.

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Ingestion

: Nuclease-Free Water No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Resuspension Buffer No known significant effects or critical hazards. End Prep Buffer No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards.

Hyb Buffer Harmful if swallowed. Causes damage to organs following a

single exposure if swallowed.

Hyb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads Capture Beads

Index Primer Mix for ILM

1_8

Index Primer Mix for ILM

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.

9-16

Over-exposure signs/symptoms

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 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:

pain or irritation watering

redness Hyb Enhancer No specific data. 2X Amplification No specific data.

Mastermix

Library Binding Beads

Capture Beads No specific data. Index Primer Mix for ILM No specific data.

1-8

Index Primer Mix for ILM

9-16

No specific data.

No specific data.

Inhalation

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

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Hyb Enhancer Adverse symptoms may include the following:

No specific data.

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification

Mastermix

Library Binding Beads

No specific data. Capture Beads No specific data. Index Primer Mix for ILM No specific data.

Index Primer Mix for ILM

No specific data.

9-16

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

Adverse symptoms may include the following: Hyb Enhancer

> reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification No specific data.

Mastermix

Library Binding Beads

Capture Beads No specific data. Index Primer Mix for ILM No specific data.

1-8

Index Primer Mix for ILM

No specific data.

No specific data.

9-16

Ingestion

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hvb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. No specific data. Resuspension Buffer No specific data. End Prep Buffer End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification No specific data.

Mastermix

Library Binding Beads

Capture Beads Index Primer Mix for ILM

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

Index Primer Mix for ILM

No specific data.

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: 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

Index Primer Mix for ILM 1-8

Index Primer Mix for ILM

9-16

Nuclease-Free Water Library Wash Buffer

> Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer**

Ligation Buffer Ligation Enzyme Adapter for ILM

Hvb Enhancer

Mastermix

9-16

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

Hyb Wash Buffer 1

End Prep Enzyme

Hyb Blocker Hyb Buffer

2X Amplification

Library Binding Beads Capture Beads

Index Primer Mix for ILM

Index Primer Mix for ILM

No specific treatment. No specific treatment.

No specific treatment. No specific treatment.

No specific treatment. No specific treatment. No specific treatment.

No specific treatment. No specific treatment.

No specific treatment. No specific treatment. No specific treatment.

No specific treatment. No specific treatment.

No specific treatment. No specific treatment. No specific treatment.

No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

: 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 Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Capture Beads 1_8

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Index Primer Mix for ILM Use an extinguishing agent suitable for the surrounding fire.

9-16

Index Primer Mix for ILM Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

Nuclease-Free Water None known. 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. Hvb Buffer None known. Hyb Enhancer None known. 2X Amplification None known. Mastermix

Library Binding Beads Capture Beads

None known. None known. None known.

Index Primer Mix for ILM

Index Primer Mix for ILM

9-16

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Nuclease-Free Water In a fire or if heated, a pressure increase will occur and the container may burst.

Library Wash Buffer In a fire or if heated, a pressure increase will occur and the

container may burst.

Hyb Wash Buffer 1 In a fire or if heated, a pressure increase will occur and the

container may burst.

Hyb Wash Buffer 2 In a fire or if heated, a pressure increase will occur and the

container may burst.

Resuspension Buffer In a fire or if heated, a pressure increase will occur and the

container may burst.

End Prep Buffer In a fire or if heated, a pressure increase will occur and the

> container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

End Prep Enzyme In a fire or if heated, a pressure increase will occur and the

container may burst.

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Ligation Buffer In a fire or if heated, a pressure increase will occur and the

container may burst.

Ligation Enzyme In a fire or if heated, a pressure increase will occur and the

container may burst.

Adapter for ILM In a fire or if heated, a pressure increase will occur and the

container may burst.

Hyb Blocker In a fire or if heated, a pressure increase will occur and the

container may burst.

Hyb Buffer In a fire or if heated, a pressure increase will occur and the

container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hyb Enhancer In a fire or if heated, a pressure increase will occur and the

container may burst.

2X Amplification In a fire or if heated, a pressure increase will occur and the

Mastermix 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.

Index Primer Mix for ILM In a fire or if heated, a pressure increase will occur and the

container may burst.

Index Primer Mix for ILM In a fire or if heated, a pressure increase will occur and the

container may burst.

9-16 : Nuclease-Free Water No specific data.

Decomposition products may include the following materials: Library Wash Buffer

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Hyb Wash Buffer 1 Decomposition products may include the following materials:

halogenated compounds

metal oxide/oxides No specific data.

Hyb Wash Buffer 2 Resuspension Buffer No specific data.

Decomposition products may include the following materials: **End Prep Buffer**

> carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides

End Prep Enzyme Decomposition products may include the following materials:

> carbon dioxide carbon monoxide

Ligation Buffer Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Ligation Enzyme Decomposition products may include the following materials:

carbon dioxide carbon monoxide No specific data.

carbon dioxide

Adapter for ILM Hyb Blocker No specific data.

Hyb Buffer Decomposition products may include the following materials:

> carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

Hazardous combustion products

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SECTION 5: Firefighting measures

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

Index Primer Mix for ILM

1-8

Index Primer Mix for ILM

9-16

No specific data.

No specific data.

No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

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: 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

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.

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. 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. 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.

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. 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. 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. 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. 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. 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. 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. 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.

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. 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. Promptly isolate the scene by removing all persons from the

SECTION 5: Firefighting measures

Capture Beads

Index Primer Mix for ILM

Index Primer Mix for ILM

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taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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. 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.

vicinity of the incident if there is a fire. No action shall be

Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment Library Wash Buffer

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment Hyb Wash Buffer 1 and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for

fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment Resuspension Buffer

> and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

End Prep Buffer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

End Prep Enzyme Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Ligation Buffer Fire-fighters should wear appropriate protective equipment

> and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Ligation Enzyme Fire-fighters should wear appropriate protective equipment

> and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

Special protective equipment for firefighters

: Nuclease-Free Water

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SECTION 5: Firefighting measures

conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Adapter for ILM Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Hyb Blocker Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Hyb Buffer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Hyb Enhancer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

2X Amplification Mastermix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Library Binding Beads Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Index Primer Mix for ILM

1-8

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Index Primer Mix for ILM

9-16

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Neep unliecessary and unprotected personner from entern Do not touch or walk through spilt material. Put on

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Library Wash Buffer No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Hyb Wash Buffer 1 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

appropriate personal protective equipment.

Hyb Wash Buffer 2 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

Resuspension Buffer No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

End Prep Buffer No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

End Prep Enzyme No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Ligation Buffer No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas.
Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Ligation Enzyme No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Adapter for ILM No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Hyb Blocker No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Hyb Buffer No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilt material. Avoid breathing

vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put

on appropriate personal protective equipment.

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SECTION 6: Accidental release measures

Hyb Enhancer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put

No action shall be taken involving any personal risk or

on appropriate personal protective equipment.

2X Amplification Mastermix

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Library Binding Beads No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt 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 spilt material. Put on

appropriate personal protective equipment.

Index Primer Mix for ILM

1-8

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Index Primer Mix for ILM

9-16

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

For emergency responders

: Nuclease-Free Water

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Library Wash Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Wash Buffer 1 If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Wash Buffer 2 If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

End Prep Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

End Prep Enzyme If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

Ligation Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

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SECTION 6: Accidental release measures

Ligation Enzyme If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Adapter for ILM If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Blocker If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Hyb Enhancer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

2X Amplification Mastermix

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Capture Beads If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Index Primer Mix for ILM

1-8

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

Index Primer Mix for ILM

9-16

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

6.2 Environmental precautions

: Nuclease-Free Water

Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Library Wash Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Hyb Wash Buffer 1 Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Hyb Wash Buffer 2 Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Resuspension Buffer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

End Prep Buffer Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

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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 spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Ligation Buffer Avoid dispersal of spilt material and runoff and contact with

> soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Ligation Enzyme Avoid dispersal of spilt material and runoff and contact with

> soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with Adapter for ILM

> soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with Hyb Blocker

> 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 spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large

quantities.

Hyb Enhancer Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

2X Amplification

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant Mastermix

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Library Binding Beads Avoid dispersal of spilt material and runoff and contact with

> soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Capture Beads Avoid dispersal of spilt material and runoff and contact with

> soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Index Primer Mix for ILM

1-8

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Index Primer Mix for ILM

9-16

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Methods for cleaning up : Nuclease-Free Water

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Library Wash Buffer Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively,

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or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Hyb Wash Buffer 1 Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Hyb Wash Buffer 2 Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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 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.

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Mastermix

SECTION 6: Accidental release measures

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.

Index Primer Mix 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.

Index Primer Mix for ILM

9-16

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.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Nuclease-Free Water Put on appropriate personal protective equipment (see

Section 8).

Library Wash Buffer Put on appropriate personal protective equipment (see

Section 8).

Hyb Wash Buffer 1 Put on appropriate personal protective equipment (see

Section 8).

Hyb Wash Buffer 2 Put on appropriate personal protective equipment (see

Section 8).

Resuspension Buffer Put on appropriate personal protective equipment (see

Section 8).

End Prep Buffer Put on appropriate personal protective equipment (see

> Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse

container.

Put on appropriate personal protective equipment (see **End Prep Enzyme**

Section 8).

Ligation Buffer Put on appropriate personal protective equipment (see

Section 8).

Ligation Enzyme Put on appropriate personal protective equipment (see

Section 8).

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

Hyb Blocker Put on appropriate personal protective equipment (see

Section 8).

Hyb Buffer Put on appropriate personal protective equipment (see

> Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory 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

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SECTION 7: Handling and storage

container.

Hyb Enhancer Put on appropriate personal protective equipment (see

Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Empty containers retain product residue and can be

hazardous. Do not reuse container.

2X Amplification Put on appropriate personal protective equipment (see

Mastermix 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).

Index Primer Mix for ILM

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

Put on appropriate personal protective equipment (see

Index Primer Mix for ILM 9-16

Section 8).

Advice on general occupational hygiene : Nuclease-Free Water

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating,

drinking and smoking. Remove contaminated clothing and protective equipment 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. Eating, drinking and smoking should be prohibited in areas

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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.

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

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

End Prep Buffer

End Prep Enzyme

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SECTION 7: Handling and storage

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,

Section 8 for additional information on hygiene measures.

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Workers should wash hands and face before eating,

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating,
drinking and smoking. Remove contaminated clothing and

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating,
drinking and smoking. Remove contaminated clothing and

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

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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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating,

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating.

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where this material is handled, stored and processed.
Workers should wash hands and face before eating,
drinking and smoking. Remove contaminated clothing and
protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating,

drinking and smoking. Remove contaminated clothing and protective equipment 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,

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

2X Amplification Mastermix

Library Binding Beads

Capture Beads

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9-16

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SECTION 7: Handling and storage

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Nuclease-Free Water Store in accordance with local regulations. Store in original

> container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Store in accordance with local regulations. Store in original Library Wash Buffer

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Hyb Wash Buffer 1 Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Hyb Wash Buffer 2 Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Resuspension Buffer Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Store in accordance with local regulations. Store in original **End Prep Buffer**

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

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SECTION 7: Handling and storage

End Prep Enzyme

contamination. See Section 10 for incompatible materials before handling or use.

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

contamination. See Section 10 for incompatible materials

before handling or use.

Ligation Buffer Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Ligation Enzyme Store in accordance with local regulations. Store in original

container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Adapter 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 unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Hyb Blocker Store in accordance with local regulations. Store in original

> container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Hyb Buffer Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and

well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

incompatible materials before handling or use.

Hyb Enhancer Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and

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well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

before handling or use.

Index Primer Mix for ILM 1-8

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

Index Primer Mix for ILM 9-16

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

Seveso Directive - Reporting thresholds

<u>Danger criteria</u>

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Ireland

Avida DNA Reagent Kit with 1-16 Index Primer Pairs for ILM, 16 Reactions, Part Number G9409A **SECTION 7: Handling and storage**

	Notification and MAPP threshold	Safety report threshold
Hyb Buffer H3	50 tonne	200 tonne

7.3 Specific end use(s)

Recommendations

: Nuclease-Free Water Industrial applications, Professional applications. Industrial applications, Professional applications. Library Wash Buffer 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. Industrial applications, Professional applications. End Prep Enzyme Industrial applications, Professional applications. Ligation Buffer Ligation Enzyme Industrial applications, Professional applications. Industrial applications. Professional applications. Adapter for ILM Industrial applications. Professional applications. Hvb Blocker Industrial applications, Professional applications. Hvb Buffer Industrial applications, Professional applications. Hyb Enhancer 2X Amplification Industrial applications, Professional applications. Mastermix Library Binding Beads Industrial applications, Professional applications. Capture Beads Industrial applications, Professional applications. Index Primer Mix for ILM Industrial applications, Professional applications.

Index Primer Mix for ILM

Industrial applications, Professional applications.

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Industrial sector specific solutions

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. Hvb Enhancer Not available. 2X Amplification Not available. Mastermix Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM Not available.

SECTION 8: Exposure controls/personal protection

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Index Primer Mix for ILM

8.1 Control parameters

Occupational exposure limits

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Not available.

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values				
End Prep Enzyme					
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)				
	OELV: 10 mg/m³ 8 hours. Form: mist				
Ligation Enzyme					
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)				
	OELV: 10 mg/m³ 8 hours. Form: mist				
Hyb Enhancer					
Formamide	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 ppm 8 hours. OELV: 18 mg/m³ 8 hours.				
	OLEV. 10 mg/m o nours.				
2X Amplification Mastermix					
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)				
	OELV: 10 mg/m³ 8 hours. Form: mist				

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
End Prep Buffer					
Magnesium chloride	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic
Hyb Buffer					
tetramethylammonium chloride	DNEL	Long term Oral	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	Workers	Systemic
Hyb Enhancer					
Formamide	DNEL	Long term Dermal	0.952 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	6.6 mg/m ³	Workers	Systemic

PNECs

No PNECs available

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SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

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 Liquid. Mastermix

Library Binding Beads Liquid.
Capture Beads Liquid.

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SECTION 9: Physical and chemical properties

Index Primer Mix for ILM

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Index Primer Mix for ILM Liquid.

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Colour : Nuclease-Free Water Colourless. 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

Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

1_8

Index Primer Mix for ILM Not available.

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Odour : Nuclease-Free Water Odourless.

> 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 Not available.

Mastermix

Library Binding Beads

Capture Beads Not available. Index Primer Mix for ILM Not available.

Not available. Index Primer Mix for ILM

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Odour threshold : Nuclease-Free Water 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.

2X Amplification Mastermix

Hyb Enhancer

Library Binding Beads Not available. Not available. Capture Beads

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Index Primer Mix for ILM Not available.

1_8

Index Primer Mix for ILM

Not available.

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Melting point/freezing point

Nuclease-Free Water 0°C

Library Wash Buffer Not available.

0°C Hyb Wash Buffer 1 Hyb Wash Buffer 2 0°C Resuspension Buffer 0°C

End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available.

Adapter for ILM 0°C 0°C Hyb Blocker

Hyb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Not available.

Mastermix

Library Binding Beads Capture Beads

Not available. Not available.

Index Primer Mix for ILM 0°C

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Index Primer Mix for ILM 9-16

0°C

Initial boiling point and boiling range

Nuclease-Free Water 100°C Library Wash Buffer Not available.

Hyb Wash Buffer 1 100°C Hyb Wash Buffer 2 100°C Resuspension Buffer 100°C End Prep Buffer Not available.

End Prep Enzyme Not available. Ligation Buffer Not available. Not available. Ligation Enzyme 100°C Adapter for ILM

Hyb Blocker 100°C Hyb Buffer Not available. Not available.

Hyb Enhancer 2X Amplification Not available. Mastermix

Library Binding Beads Not available. Capture Beads Not available.

Index Primer Mix for ILM 100°C

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Index Primer Mix for ILM 100°C

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Flammability

Nuclease-Free Water Not applicable. Not applicable. Library Wash Buffer

Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer **End Prep Buffer** Not applicable. End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hvb Blocker Hvb Buffer Not applicable.

Hyb Enhancer 2X Amplification Mastermix

Library Binding Beads Not applicable. Capture Beads Not applicable. Index Primer Mix for ILM Not applicable.

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Not applicable.

Not applicable.

SECTION 9: Physical and chemical properties

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Index Primer Mix for ILM Not applicable.

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or explosive limits

Upper/lower flammability: 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 Not available. Mastermix Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM Not available. Index Primer Mix for ILM Not available. 9-16

Flash point

	Clo	sed cup	O	pen cup
Ingredient name	°C	Method	°C	Method
Library Wash Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
End Prep Enzyme				
glycerol	-	-	177	-
Ligation Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
Ligation Enzyme				
glycerol	-	-	177	-
Hyb Enhancer				
formamide	150	-	152	DIN EN ISO 2592
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
2X Amplification Mastermix				
glycerol	-	-	177	-
Library Binding Beads				

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SECTION 9: Physical and chemical properties

Auto-ignition temperature

ingredient name	_	
Ingredient name	C	Method
Poly(oxy-1,2-ethanediyl),α-hydro-ω- 171 to hydroxy- Ethane-1,2-diol, ethoxylated 235	-	199 to - 238

Trydroxy Editatio 1,2 diot, datexylated 200		200
Ingredient name	°C	Method
Library Wash Buffer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
End Prep Enzyme		
glycerol	370	-
Ligation Buffer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
Ligation Enzyme		
glycerol	370	-
Hyb Enhancer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
formamide	>500	ASTM D 2155-66
2X Amplification Mastermix		
glycerol	370	-
Library Binding Beads		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
Nucleone Free Water Not available		

Decomposition temperature

Zarano 1,2 dioi, saroxylatod					
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	Not available.				
Mastermix					
Library Binding Beads	Not available.				
Capture Beads	Not available.				
Index Primer Mix for ILM	Not available.				
1-8					
Index Primer Mix for ILM 9-16	Not available.				

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На	: 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 Not available.

Mastermix

Library Binding Beads 8

Capture Beads Not available.

Index Primer Mix for ILM 8

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Index Primer Mix for ILM 8

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Viscosity : 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.

Mastermix

2X Amplification

Library Binding Beads Not available.
Capture Beads Not available.
Index Primer Mix for ILM Not available.

Not available.

1-8

Index Primer Mix for ILM Not available.

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Solubility(ies)

:	Media	Result
	Nuclease-Free Water	
,	water	Soluble
	Library Wash Buffer	
,	water	Soluble
	Hyb Wash Buffer 1	
		Soluble
	Hyb Wash Buffer 2	
		Soluble
	Resuspension Buffer	
		Soluble
	End Prep Buffer	
		Soluble
	End Prep Enzyme	
		Soluble
	Ligation Buffer	
		Soluble
	Ligation Enzyme	
		Soluble
	Adapter for ILM	
	water	Soluble

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SECTION 9: Physical and chemical properties

Hyb Blocker	
water	Soluble
Hyb Buffer	
water	Soluble
Hyb Enhancer	
water	Soluble
Library Binding Beads	
water	Soluble
Capture Beads	
water	Soluble
Index Primer Mix for ILM 1-8	
water	Soluble
Index Primer Mix for ILM 9-16	
water	Soluble

Partition coefficient: noctanol/water

: Nuclease-Free Water -1.38Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Not applicable. Resuspension Buffer End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. 2X Amplification Mastermix Library Binding Beads Not applicable. Not applicable. Capture Beads Not applicable. Index Primer Mix for ILM Index Primer Mix for ILM Not applicable. 9-16

Vapour pressure

: Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C]

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
☑brary Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
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	-

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SECTION 9: Physical and chemical properties

ana onomicai p						
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	-
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
tetramethylammonium chloride	0.000000001	0.0000000013	EU A.4	-	-	-
Hyb Enhancer						
formamide	0.045	0.006	-	-	-	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
2X Amplification Mastermix						
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Library Binding Beads						

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SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
Capture Beads						
water	17.5	2.3	-	92.258	12.3	-
Index Primer Mix for ILM 1-8						
water	17.5	2.3	-	92.258	12.3	-
Index Primer Mix for ILM 9-16						
water	17.5	2.3	-	92.258	12.3	-

Evaporation rate

: 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 Not available. Mastermix Library Binding Beads Not available. Capture Beads Not available. Index Primer Mix for ILM Not available.

Index Primer Mix for ILM 9-16 : Nuclease-Free Water

Not available.

Relative density

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

Library Binding Beads Capture Beads Index Primer Mix for ILM

Not available. Not available. Not available.

Not available.

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SECTION 9: Physical and chemical properties

- 4	
- 1	

Index Primer Mix for ILM Not available.

9-16

Vapour density

: Nuclease-Free Water 0.62 [Air = 1]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. Hvb Blocker Not available. Hvb Buffer Not available. Hyb Enhancer Not available. 2X Amplification Not available.

Mastermix

Library Binding Beads Not available. Capture Beads Not available.

Index Primer Mix for ILM

1-8

Index Primer Mix for ILM 9-16

Not available.

Not available.

Explosive properties

: 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. Hvb Enhancer Not available. 2X Amplification Not available.

Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM

Index Primer Mix for ILM 9-16

Not available.

Not available.

Not available.

Not available.

Oxidising properties

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 Not available.

Mastermix

Library Binding Beads

Capture Beads Not available. Index Primer Mix for ILM Not available.

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Not available.

SECTION 9: Physical and chemical properties

Index Primer Mix for ILM Not available.

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Particle characteristics Median particle size

Nuclease-Free Water Not applicable. Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. 2X Amplification Not applicable. Mastermix

Library Binding Beads

Capture Beads

Ligation Buffer

Adapter for ILM

Hyb Blocker

Hyb Buffer

Index Primer Mix for ILM

1-8

Index Primer Mix for ILM

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Not applicable. Not applicable.

Not applicable.

Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

Nuclease-Free Water No specific test data related to reactivity available for this

product or its ingredients.

Library Wash Buffer No specific test data related to reactivity available for this

product or its ingredients.

Hyb Wash Buffer 1 No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Hyb Wash Buffer 2

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.

No specific test data related to reactivity available for this

product or its ingredients. Ligation Enzyme

No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Hyb Enhancer

product or its ingredients.

2X Amplification No specific test data related to reactivity available for this

Mastermix product or its ingredients.

Library Binding Beads No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Capture Beads

product or its ingredients.

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SECTION 10: Stability and reactivity

Index Primer Mix for ILM 1-8

No specific test data related to reactivity available for this

product or its ingredients. Index Primer Mix for ILM

9-16

No specific test data related to reactivity available 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 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

Index Primer Mix for ILM

Index Primer Mix for ILM The product is stable.

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The product is stable. The product is stable.

The product is stable.

The product is stable.

The product is stable.

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, hazardous

reactions will not occur.

Hyb Wash Buffer 1 Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Wash Buffer 2 Under normal conditions of storage and use, hazardous

reactions will not occur.

Resuspension Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

End Prep Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

End Prep Enzyme Under normal conditions of storage and use, hazardous

reactions will not occur.

Ligation Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous Ligation Enzyme

reactions will not occur.

Under normal conditions of storage and use, hazardous Adapter for ILM

reactions will not occur.

Hyb Blocker Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Enhancer Under normal conditions of storage and use, hazardous

reactions will not occur.

2X Amplification Under normal conditions of storage and use, hazardous

reactions will not occur. Mastermix

Library Binding Beads Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous Capture Beads

reactions will not occur.

Index Primer Mix for ILM Under normal conditions of storage and use, hazardous

reactions will not occur.

Index Primer Mix for ILM Under normal conditions of storage and use, hazardous

reactions will not occur.

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SECTION 10: Stability and reactivity

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. No specific data. Resuspension Buffer **End Prep Buffer** No specific data. No specific data. End Prep Enzyme Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data. Hyb Enhancer No specific data. 2X Amplification No specific data. Mastermix Library Binding Beads No specific data. Capture Beads No specific data. Index Primer Mix for ILM No specific data. Index Primer Mix for ILM No specific data.

10.5 Incompatible materials

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 Index Primer Mix for ILM 1-8 Index Primer Mix for ILM

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May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: Nuclease-Free Water

9-16

Liliana NAVarala Dares

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous

decomposition products should not be produced. Under normal conditions of storage and use, hazardous

decomposition products should not be produced.
Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

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Adapter for ILM Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous Hyb Blocker 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 Under normal conditions of storage and use, hazardous Mastermix 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. Index Primer Mix for ILM Under normal conditions of storage and use, hazardous decomposition products should not be produced. Index Primer Mix for ILM Under normal conditions of storage and use, 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		Dose	Exposure
End Prep Buffer				
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
Hyb Buffer				
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	g -
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium	LD50 Oral	Rat	20600 mg/kg	-
Poly(oxy-1,2-ethanediyl), . alpha[LD50 Oral	Rat	2800 mg/kg	-
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists	Rat - Male	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	17 g/kg	-
	LD50 Oral	Rat	5570 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
Hyb Buffer					
Hyb Buffer	456.2	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

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Hyb Buffer Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-

Sensitiser

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
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)

Product/ingredient name	Category	Route of exposure	Target organs
Hyb Enhancer Formamide	Category 2	oral	blood

Aspiration hazard

Not available.

Information on likely routes of exposure

: Nuclease-Free 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 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

Hyb Buffer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Hyb Enhancer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. 2X Amplification Not available.

Not available.

Mastermix

Library Binding Beads

Capture Beads Not available. Index Primer Mix for ILM

Not available.

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Index Primer Mix for ILM Not available.

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Potential acute health effects

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SECTION 11: Toxicological information

Inhalation

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

No known significant effects or critical hazards. No known significant effects or critical hazards.

Causes damage to organs following a single exposure if inhaled.

Hyb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads

Capture Beads Index Primer Mix for ILM

Index Primer Mix for ILM

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No known significant effects or critical hazards.

Ingestion

: Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker

Hyb Buffer

Hvb Enhancer

2X Amplification Mastermix

Library Binding Beads Capture Beads

Index Primer Mix for ILM

Index Primer Mix for ILM 9-16

No known significant effects or critical hazards. No known significant effects or critical hazards.

Harmful if swallowed. Causes damage to organs following a

single exposure if swallowed. 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.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Skin contact

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hvb Enhancer 2X Amplification Mastermix Library Binding Beads

Capture Beads Index Primer Mix for ILM No known significant effects or critical hazards. No known significant effects or critical hazards.

Causes damage to organs following a single exposure in

contact with skin. Causes skin irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Index Primer Mix for ILM

No known significant effects or critical hazards.

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Eye contact

No known significant effects or critical hazards. : Nuclease-Free Water Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Resuspension Buffer No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Enhancer 2X Amplification No known significant effects or critical hazards.

Mastermix

Library Binding Beads No known significant effects or critical hazards. No known significant effects or critical hazards.

Capture Beads Index Primer Mix for ILM

No known significant effects or critical hazards.

1-8 Index Primer Mix for ILM

No known significant effects or critical hazards.

9-16

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification

Mastermix

No specific data.

Library Binding Beads No specific data. Capture Beads No specific data. Index Primer Mix for ILM No specific data.

1-8

Index Primer Mix for ILM No specific data.

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Ingestion

Nuclease-Free Water No specific data. Library Wash Buffer No specific data.

No specific data. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Adverse symptoms may include the following: Hyb Enhancer

reduced foetal weight increase in foetal deaths

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skeletal malformations

2X Amplification

No specific data.

Mastermix

Library Binding Beads Capture Beads

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

Index Primer Mix for ILM

Index Primer Mix for ILM

No specific data.

9-16

Skin contact

: Nuclease-Free Water No specific data. Library Wash Buffer No specific data. Hvb Wash Buffer 1 No specific data. Hvb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. End Prep Buffer No specific data. No specific data. End Prep Enzyme No specific data. Ligation Buffer Ligation Enzyme No specific data. Adapter for ILM No specific data.

No specific data. Hyb Buffer Adverse symptoms may include the following:

> irritation redness

Adverse symptoms may include the following: Hyb Enhancer

No specific data.

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification

Mastermix

Hyb Blocker

Library Binding Beads No specific data.

Capture Beads No specific data. Index Primer Mix for ILM No specific data.

1-8

Index Primer Mix for ILM

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No specific data.

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 No specific data. No specific data. Ligation Buffer No specific data. Ligation Enzyme 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 No specific data.

Mastermix

Library Binding Beads No specific data. Capture Beads No specific data. Index Primer Mix for ILM No specific data.

Index Primer Mix for ILM No specific data.

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

Short term exposure

Potential immediate

effects

Not available.

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Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary

: Not available.

General

Nuclease-Free Water No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 Resuspension Buffer No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards. Hyb Enhancer May cause damage to organs through prolonged or

repeated exposure.

2X Amplification

Mastermix

Library Binding Beads

Capture Beads Index Primer Mix for ILM

1-8

Index Primer Mix for ILM

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No known significant effects or critical hazards.

Carcinogenicity

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer No known significant effects or critical hazards.

Suspected of causing cancer. Risk of cancer depends on

duration and level of exposure.

2X Amplification

Mastermix

Library Binding Beads

Capture Beads

Index Primer Mix for ILM

1-8

Index Primer Mix for ILM

9-16

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.

No known significant effects or critical hazards.

Mutagenicity

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer No known significant effects or critical hazards. No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards. Hyb Enhancer No known significant effects or critical hazards. 2X Amplification No known significant effects or critical hazards. Mastermix Library Binding Beads No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards. Index Primer Mix for ILM No known significant effects or critical hazards. Index Primer Mix for ILM No known significant effects or critical hazards. 9-16

Reproductive toxicity

Nuclease-Free Water Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer 2X Amplification Mastermix

Mastermix
Library Binding Beads
Capture Beads
Index Primer Mix for ILM
1-8
Index Primer Mix for ILM

9-16

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.

No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

End Prep Buffer Adapter for ILM Hyb Enhancer Adverse symptoms may include the following: May cause skin sensitisation. Adverse symptoms may include the following: May cause skin sensitisation. Adverse symptoms may include the following: May cause eye irritation. May cause skin irritation.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
End Prep Buffer			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Eudiaptomus padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 32000 μg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days

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Hyb Buffer tetramethylammonium	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
chloride	, touto 2000 for mg/ff foot water	There is a maprial of promoted	oo noaro
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 10800 μg/l Marine water	Crustaceans - <i>Pandalus</i> <i>montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test		adily - 28 days	-		-
Droduct/ingradient name	Aguatia half life		Photolypia		Diades	rodobility

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Buffer tetramethylammonium chloride	-	-	Readily
Hyb Enhancer Formamide	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	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
Hyb Enhancer Formamide	-0.82	-	Low

12.4 Mobility in soil

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Soil/water partition coefficient (Koc)

: Not available.

Mobility Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vΡ	vB
Nuclease-Free Water							
water	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

Packaging

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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SECTION 14: Transport information

14.6 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Ingredient name	Intrinsic property		Reference number	Date of revision
Hyb Buffer Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	Endocrine disrupting properties for environment	Listed	42	7/3/2017

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Hyb Buffer Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	Endocrine disrupting properties for environment	Recommended	ED/169/2012	7/3/2017
Hyb Enhancer Formamide	Toxic to reproduction	Candidate	ED/87/2012	6/18/2012

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Designation [Usage]
End Prep Buffer End Prep Buffer		3
Hyb Buffer Hyb Buffer		3
Hyb Enhancer Hyb Enhancer		3 30
Formamide		30

Label

Not applicable. : Nuclease-Free Water Not applicable. Library Wash Buffer Hyb Wash Buffer 1 Not applicable. Hvb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. **End Prep Buffer** Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Not applicable. Ligation Enzyme Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable.

Hyb Enhancer Restricted to professional users.

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SECTION 15: Regulatory information

2X Amplification Mastermix Not applicable. Not applicable. Library Binding Beads Capture Beads Not applicable. Index Primer Mix for ILM 1-8 Not applicable. Index Primer Mix for ILM 9-16 Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

Category	
Hyb Buffer H3	

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
	Ireland Occupational Exposure Limits	formamide	Repro. Repr.1B	-

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. : Not determined. China

Eurasian Economic

: Russian Federation inventory: Not determined. Union

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.

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SECTION 15: Regulatory information

Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
End Prep Buffer	
Aquatic Chronic 3, H412	Calculation method
Hyb Buffer	
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Calculation method
STOT SE 1, H370	Calculation method
Aquatic Chronic 3, H412	Calculation method
Hyb Enhancer	
Carc. 2, H351	Calculation method
Repr. 1B, H360	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

End Prep Buffer	
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Hyb Buffer	
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Hyb Enhancer	
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated
	exposure.
	oxposition.

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SECTION 16: Other information

Full text of classifications [CLP/GHS]

End Prep Buffer

Aquatic Chronic 1

Aquatic Chronic 3

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Hyb Buffer

Acute Tox. 2
Acute Tox. 3
Acute Tox. 3
Acute Tox. 4
Acute Tox. 6
Acute Tox. 7
Acute Tox. 6
Acute Tox. 7
Acute

Aquatic Acute 1

Aquatic Chronic 1

Aquatic Chronic 2

Aquatic Chronic 2

Aquatic Chronic 3

Eye Dam. 1

Eye Irrit. 2

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 1

Category 1

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

Hyb Enhancer

Carc. 2 CARCINOGENICITY - Category 2

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

- Category 2

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