SAFETY DATA SHEET



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

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

1.1 Product identifier

Product name

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

Number G9429B

UK (GB) REACH Reg	<u>iistration number</u>			
Registration number Nuclease-Free Water Exempt from REACH: According to the provisions of Article 2(7)(a) and Annex IV of REACH		Legal entity		
CAS number	: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer	7732-18-5 Not applicable.		

Soft Conversion Reagent A

2X Methyl Amplification Not applicable.

Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Not applicable. Reagent B

Soft Conversion Binding Not applicable.

Beads

Wash Buffer

5X Soft Conversion

Not applicable.

Not applicable.

Soft Conversion Elution

Not applicable.

Buffer

Soft Conversion Repair Not applicable.

Solution Library Binding Beads Not applicable.

Not applicable.

Capture Beads Avida Index Primer Pairs

Library Wash Buffer

Not applicable.

97-192 for ILM

G9429B

Part no. (chemical kit) Part no.

Avida Methyl Reagent Box 2, 96 Reactions/ 5282-0148/5282-0150 Avida Methyl and Duo Reagent Box 3, 96

5282-0148

5271-0130

Reactions

Nuclease-Free Water 5271-0134 Avida Methyl Reagent Box 1, 96 Reactions 5282-0146 **End Prep Buffer** 5271-0121 End Prep Enzyme 5271-0122 Ligation Buffer 5271-0123 Ligation Enzyme 5271-0124 Adapter for ILM 5271-0139 Hyb Blocker 5271-0126 Hyb Buffer 5271-0127 Hyb Enhancer 5271-0128 Soft Conversion Reagent A 5271-0137 2X Methyl Amplification Mastermix 5271-0138

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Avida Methyl Reagent Box 2, 96 Reactions

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

Hyb Wash Buffer 1	5271-0131
Hyb Wash Buffer 2	5271-0132
Avida Methyl and Duo Reagent Box 3, 96	<u>5282-0150</u>
Reactions	
Soft Conversion Reagent B	5271-0113
Soft Conversion Binding Beads	5271-0141
5X Soft Conversion Wash Buffer	5271-0142
Soft Conversion Elution Buffer	5271-0143
Soft Conversion Repair Solution	5271-0144
Avida Beads Box, 96 Reactions	<u>5282-0144</u>
Library Binding Beads	5271-0135
Capture Beads	5271-0136
Avida Index Primer Pairs 97 -192 for ILM	<u>5280-0056</u>
Avida Index Primer Pairs 97-192 for ILM	5274-0080

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

Identified uses

: Analytical reagent. For research use only.

Nuclease-Free Water 5.76 ml (96 reactions) End Prep Buffer 0.877 ml (96 reactions) End Prep Enzyme 0.351 ml (96 reactions) Ligation Buffer 2.960 ml (96 reactions) Ligation Enzyme 0.694 ml (96 reactions) 0.588 ml (96 reactions) Adapter for ILM 0.349 ml (96 reactions) Hyb Blocker 5.524 ml (96 reactions) Hyb Buffer 0.988 ml (96 reactions) Hyb Enhancer Soft Conversion Reagent A 0.387 ml (96 reactions) 2X Methyl Amplification Mastermix 2.940 ml (96 reactions) Library Wash Buffer 21.12 ml (96 reactions) Hyb Wash Buffer 1 31.680 ml (96 reactions) Hyb Wash Buffer 2 18.24 ml (96 reactions)

Soft Conversion Reagent B 6 x 0.750 ml

Soft Conversion Binding Beads 17.280 ml (96 reactions) 5X Soft Conversion Wash Buffer 8 ml (96 reactions) Soft Conversion Elution Buffer 1.728 ml (96 reactions) 0.588 ml (96 reactions) Soft Conversion Repair Solution Library Binding Beads 10.083 ml (96 reactions) Capture Beads 0.944 ml (96 reactions)

Avida Index Primer Pairs 97-192 for ILM 96 x 0.005 ml

Uses advised against : Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR United Kingdom

Tel: +44 (0) 345 712 5292

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

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Nuclease-Free Water Mono-constituent substance

End Prep Buffer Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hyb Buffer Mixture Hyb Enhancer Mixture Soft Conversion Mixture

Reagent A

2X Methyl Amplification Mixture

Mastermix

Library Wash Buffer Mixture
Hyb Wash Buffer 1 Mixture
Hyb Wash Buffer 2 Mixture
Soft Conversion Mixture

Reagent B

Soft Conversion Binding Mixture

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair Mixture

Mixture

Mixture

Solution

Library Binding Beads Mixture
Capture Beads Mixture
Avida Index Primer Pairs Mixture

97-192 for ILM

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

End Prep Buffer

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

Hyb Buffer

H302ACUTE TOXICITY (oral)Category 4H315SKIN CORROSION/IRRITATIONCategory 2H370SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURECategory 1H412LONG-TERM (CHRONIC) AQUATIC HAZARDCategory 3

Hyb Enhancer

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

EXPOSURE

Soft Conversion Reagent A

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2
H360FD REPRODUCTIVE TOXICITY Category 1B

Soft Conversion

Reagent B

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

Soft Conversion Binding Beads

H226FLAMMABLE LIQUIDSCategory 3H314SKIN CORROSION/IRRITATIONCategory 1CH400SHORT-TERM (ACUTE) AQUATIC HAZARDCategory 1H411LONG-TERM (CHRONIC) AQUATIC HAZARDCategory 2

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Soft Conversion Elution Buffer

Adapter for ILM

H314 SKIN CORROSION/IRRITATION Category 1

Nuclease-Free Water The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

End Prep Buffer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

End Prep Enzyme The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ligation Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ligation Enzyme The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Blocker The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Buffer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Enhancer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Soft Conversion Reagent A The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

2X Methyl Amplification Mastermix The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Library Wash Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Wash Buffer 1 The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Hyb Wash Buffer 2 The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Soft Conversion Reagent B The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Soft Conversion Binding Beads The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

5X Soft Conversion Wash Buffer The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Soft Conversion Elution Buffer The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Soft Conversion Repair Solution The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Library Binding Beads The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Capture Beads The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Avida Index Primer Pairs 97-192 for ILM The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity

: 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%

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%

SECTION 2: Hazards identification

	2X Methyl Amplification Mastermix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60% 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: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
	2X Methyl Amplification Mastermix	unknown acute inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60% 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: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
	2X Methyl Amplification Mastermix	unknown acute dermal toxicity: > 60% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60% 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: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
	Mastermix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60% 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: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
	Mastermix	unknown acute inhalation toxicity: > 60% 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: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
	Mastermix	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: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
	Mastermix	unknown acute dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
		unknown acute inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of
		Percentage of the mixture consisting of ingredient(s) of
		unknown acute oral toxicity: 1 - 10%
	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%
	Soft Conversion Reagent B	Percentage of the mixture consisting of ingredient(s) of
		unknown acute dermal toxicity: > 60%
		Percentage of the mixture consisting of ingredient(s) of
		unknown acute inhalation toxicity: > 60%
		Percentage of the mixture consisting of ingredient(s) of
		unknown acute oral toxicity: > 60%
	Soft Conversion Binding	Percentage of the mixture consisting of ingredient(s) of
	Beads	unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of
		unknown acute inhalation toxicity: 1 - 10%
	Soft Conversion Repair	Percentage of the mixture consisting of ingredient(s) of
	Solution	unknown acute inhalation toxicity: 1 - 10%
	Library Binding Beads	Percentage of the mixture consisting of ingredient(s) of
		unknown acute inhalation toxicity: 30 - 60%
:	Hyb Buffer	Contains 3.4% of components with unknown hazards to the
		aquatic environment
	2X Methyl Amplification	Contains 10% of components with unknown hazards to the
	Mastermix	aquatic environment
	Soft Conversion Reagent B	Contains 70% of components with unknown hazards to the
		aquatic environment

Ingredients of unknown ecotoxicity

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

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SECTION 2: Hazards identification

Hazard pictograms

: Hyb Buffer



Hyb Enhancer



Soft Conversion Reagent A





Soft Conversion Reagent B



Soft Conversion Binding Beads







Soft Conversion Elution Buffer



Signal word

: Nuclease-Free Water End Prep Buffer End Prep Enzyme No signal word. Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker No signal word. Hyb Buffer Danger Hyb Enhancer Danger Soft Conversion

Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs No signal word.

97-192 for ILM

No signal word. No signal word.

No signal word. No signal word. No signal word.

Danger

No signal word.

No signal word. No signal word. No signal word.

Warning

Danger

No signal word.

Danger

No signal word.

No signal word. No signal word.

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SECTION 2: Hazards identification

Hazard statements

Nuclease-Free Water No known significant effects or critical hazards. 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. 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 H302 - Harmful if swallowed.

H315 - Causes skin irritation. H370 - Causes damage to organs.

H412 - Harmful to aquatic life with long lasting effects.

H351 - Suspected of causing cancer. Hyb Enhancer

H360 - May damage fertility or the unborn child.

No known significant effects or critical hazards.

H373 - May cause damage to organs through prolonged or

repeated exposure.

Soft Conversion Reagent A

H319 - Causes serious eye irritation.

H360FD - May damage fertility. May damage the unborn child.

2X Methyl Amplification

Mastermix

Library Wash Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No known significant effects or critical hazards.

Soft Conversion

Reagent B

H319 - Causes serious eye irritation.

Soft Conversion Binding

Beads

H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects.

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

H314 - Causes severe skin burns and eye damage.

No known significant effects or critical hazards.

Soft Conversion Repair Solution

Library Binding Beads

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

Capture Beads

Avida Index Primer Pairs 97-192 for ILM

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

Precautionary statements

Prevention

: Nuclease-Free Water Not applicable.

End Prep Buffer P273 - Avoid release to the environment.

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

P201 - Obtain special instructions before use. Hyb Enhancer

P280 - Wear protective gloves, protective clothing and eye or

face protection.

P260 - Do not breathe vapour.

Soft Conversion Reagent A

P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or

face protection. Not applicable.

2X Methyl Amplification

Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable.

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SECTION 2: Hazards identification

Response

Hyb Wash Buffer 2 Not applicable.

Soft Conversion P280 - Wear eye or face protection.

Reagent B

Soft Conversion Binding

Beads

P280 - Wear protective gloves, protective clothing and eye or

face protection.

P210 - Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P273 - Avoid release to the environment.

5X Soft Conversion Not applicable.

Wash Buffer

Soft Conversion Elution

Buffer

P280 - Wear protective gloves, protective clothing and eye or

face protection. Not applicable.

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs Not applicable.

Not applicable.

Not applicable.

97-192 for ILM

: Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable.

End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Ligation Enzyme Not applicable. 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.

Soft Conversion

Reagent A

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

or attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice or

attention.

Not applicable.

2X Methyl Amplification

Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable.

Soft Conversion Reagent B

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice or

attention.

Soft Conversion Binding

Beads

P391 - Collect spillage.

P304 + P310 - IF INHALED: Immediately call a POISON

CENTER or doctor. Not applicable.

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

P304 + P310 - IF INHALED: Immediately call a POISON

CENTER or doctor.

P301 + P310 - IF SWALLOWED: Immediately call a POISON

CENTER or doctor.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Immediately call a POISON CENTER or doctor.

Soft Conversion Repair

Solution

Not applicable.

Not applicable. Library Binding Beads Capture Beads Not applicable. Avida Index Primer Pairs Not applicable.

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SECTION 2: Hazards identification

97-192 for II M

Disposal

: Nuclease-Free Water 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. Not applicable. Hvb Blocker Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Not applicable.

Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Not applicable.

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs Not applicable.

97-192 for ILM

Nuclease-Free Water

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

Hyb Enhancer P501 - Dispose of contents and container in accordance with

Soft Conversion P501 - Dispose of contents and container in accordance with

Reagent A 2X Methyl Amplification

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion

Reagent B

Soft Conversion Binding

Reads

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Not applicable. Not applicable. Avida Index Primer Pairs Not applicable.

P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

all local, regional, national and international regulations.

all local, regional, national and international regulations.

Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Not applicable.

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SECTION 2: Hazards identification

97-192 for ILM

Hazardous ingredients

: Hyb Buffer tetramethylammonium chloride

Hyb Enhancer formamide

Soft Conversion tetrahydro-2-furyl-methanol

Reagent A

Soft Conversion Binding salts of thiocyanic acid and Poly(oxy-1,2-ethanediyl), .alpha.-[

(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-**Beads**

Supplemental label elements

Annex XVII - Restrictions

on the manufacture,

and use of certain

placing on the market

dangerous substances,

mixtures and articles

Muclease-Free Water Not applicable. **End Prep Buffer** Not applicable.

End Prep Enzyme Safety data sheet available on request.

Ligation Buffer Not applicable.

Ligation Enzyme Safety data sheet available on request.

Not applicable. Adapter for ILM Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Not applicable.

Reagent A

2X Methyl Amplification Not applicable.

Mastermix

Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Soft Conversion Not applicable.

Reagent B

Soft Conversion Binding Corrosive to the respiratory tract.

Beads

5X Soft Conversion Not applicable.

Wash Buffer

Soft Conversion Elution Not applicable.

Buffer

Soft Conversion Repair Not applicable.

Solution

Library Binding Beads Not applicable. Capture Beads Not applicable. Not applicable. Avida Index Primer Pairs

97-192 for ILM

Nuclease-Free Water

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

Hyb Enhancer Restricted to professional users. Soft Conversion Restricted to professional users.

Reagent A

2X Methyl Amplification Not applicable.

Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Not applicable.

Reagent B

Soft Conversion Binding Not applicable.

Beads

5X Soft Conversion Not applicable.

Wash Buffer

Soft Conversion Elution Not applicable.

Buffer

Soft Conversion Repair Not applicable.

Solution

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Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs Not applicable. 97-192 for ILM

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Tactile warning of

danger

: Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Not applicable. Hyb Blocker Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Not applicable. Reagent A Not applicable.

2X Methyl Amplification

Mastermix

Library Wash Buffer Not applicable. Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Soft Conversion Not applicable.

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs 97-192 for ILM

Nuclease-Free Water

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

Soft Conversion Reagent A

2X Methyl Amplification Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Not applicable.

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable.

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SECTION 2: Hazards identification

Avida Index Primer Pairs Not applicable. 97-192 for ILM

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	νP	vB
Nuclease- Free Water Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A
End Prep Buffer End Prep Enzyme		assesse This mix	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 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 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.

Hyb Buffer

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 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.

Soft Conversion

This mixture does not contain any substances that are

Reagent A assessed to be a PBT or a vPvB.

2X Methyl Amplification This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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.

Soft Conversion This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Soft Conversion Binding This mixture does not contain any substances that are

Beads assessed to be a PBT or a vPvB.

5X Soft Conversion This mixture does not contain any substances that are Wash Buffer assessed to be a PBT or a vPvB.

Soft Conversion Elution This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Soft Conversion Repair This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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.

Avida Index Primer Pairs This mixture does not contain any substances that are

97-192 for ILM assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Nuclease-Free Water 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. Hvb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion None known.

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SECTION 2: Hazards identification

Reagent A

2X Methyl Amplification None known.

Mastermix

Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Soft Conversion None known.

Reagent B

Soft Conversion Binding Causes digestive tract burns.

Beads

5X Soft Conversion None known.

Wash Buffer

Soft Conversion Elution None known.

Buffer

None known. Soft Conversion Repair

Solution

Library Binding Beads None known. Capture Beads None known. Avida Index Primer Pairs None known.

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Substances identified as having endocrine disruptor properties

Ingredient name	Impact
Soft Conversion Binding Beads Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	Environment

SECTION 3: Composition/information on ingredients

3.1 Substances Nuclease-Free Water Mono-constituent substance

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

for ILM

Product/ingredient name	Identifiers	%	Classification	Type
Nuclease-Free Water water	UK (GB) REACH #: Annex IV 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=1)	[1]

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SECTION 3: Composition/information on ingredients

End Prep Enzyme Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]
Ligation Enzyme Glycerol	UK (GB) REACH #: Annex V 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	[1]
Dextran sulfate sodium	CAS: 9011-18-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
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 (M=10) Aquatic Chronic 1, H410 (M=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]
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	EC: 202-625-6 CAS: 97-99-4 Index: 603-061-00-7	≥90	Eye Irrit. 2, H319 Repr. 1B, H360FD	[1]
Soft Conversion Reagent B ammonium hydrogensulphite	EC: 233-469-7 CAS: 10192-30-0	≥50 - ≤75	Eye Irrit. 2, H319 EUH031	[1]
Soft Conversion Binding Beads ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥50 - ≤75	Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1] [2]
salts of thiocyanic acid	EC: 209-812-1 CAS: 593-84-0 Index: 615-004-00-3	≥10 - ≤21	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 EUH032 EUH071	[1]
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	CAS: 9036-19-5	≤6.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400	[1] [3]

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

Avida Methyl Reagent Kit with 97-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9429B **SECTION 3: Composition/information on ingredients** (M=10)Aquatic Chronic 1, H410 (M=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.

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

Soft Conversion Reagent B

Soft Conversion Binding Beads

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 [1] Substance with a workplace exposure limit Ligation Enzyme

[1] Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

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

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.

Soft Conversion Immediately flush eyes with plenty of water, occasionally Reagent A lifting the upper and lower eyelids. Check for and remove

any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

2X Methyl Amplification Immediately flush eyes with plenty of water, occasionally

: 26/02/2024 Date of issue/Date of revision : 08/04/2024 Date of previous issue Version: 1.1 15/86 Library Wash Buffer

Mastermix

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

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

SECTION 4: First aid measures

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 Hyb Wash Buffer 1 lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Hyb Wash Buffer 2 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Soft Conversion Immediately flush eyes with plenty of water, occasionally Reagent B lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. Soft Conversion Binding Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. 5X Soft Conversion Immediately flush eyes with plenty of water, occasionally Wash Buffer lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Soft Conversion Elution Get medical attention immediately. Call a poison center or Buffer physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Soft Conversion Repair Immediately flush eyes with plenty of water, occasionally Solution lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Library Binding Beads Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Capture Beads Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Avida Index Primer Pairs Immediately flush eyes with plenty of water, occasionally 97-192 for ILM lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. : Nuclease-Free Water Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. **End Prep Buffer** Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position End Prep Enzyme comfortable for breathing. Get medical attention if symptoms occur. Ligation Buffer Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position Ligation Enzyme 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

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SECTION 4: First aid measures

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

The exposed person may need to be kept under medical

surveillance for 48 hours.

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

comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be

delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Soft Conversion Reagent A

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

2X Methyl Amplification

Mastermix

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

occur.

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

comfortable for breathing. Get medical attention if symptoms

occur.

Hyb Wash Buffer 1 Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

occur.

Hyb Wash Buffer 2 Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

occur.

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

Soft Conversion Binding Beads

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a

SECTION 4: First aid measures

position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5X Soft Conversion Wash Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

Soft Conversion Elution Buffer

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Soft Conversion Repair Solution

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position

Library Binding Beads

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

Avida Index Primer Pairs 97-192 for ILM

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

: Nuclease-Free Water

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

symptoms occur.

End Prep Buffer

Skin contact

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

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symptoms occur.

Flush contaminated skin with plenty of water. Remove Hyb Buffer

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SECTION 4: First aid measures

contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Hyb Enhancer Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Soft Conversion Reagent A

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

2X Methyl Amplification

Mastermix

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

symptoms occur.

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

contaminated clothing and shoes. Get 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.

Soft Conversion Reagent B

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Soft Conversion Binding

Beads

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

5X Soft Conversion

Wash Buffer

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

symptoms occur.

Soft Conversion Elution

Buffer

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Soft Conversion Repair

Solution

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.

Avida Index Primer Pairs

97-192 for ILM

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

symptoms occur.

: Nuclease-Free Water Wash out mouth with water. If material has been swallowed Ingestion

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

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

occur.

Wash out mouth with water. If material has been swallowed

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

occur.

Wash out mouth with water. If material has been swallowed

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

Wash out mouth with water. If material has been swallowed

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

occur.

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

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

place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

Hyb Enhancer Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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. : 26/02/2024 Version: 1.1 20/86

SECTION 4: First aid measures

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Soft Conversion

Reagent A

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Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

2X Methyl Amplification Mastermix Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Library Wash Buffer

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Hyb Wash Buffer 1

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Hyb Wash Buffer 2

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Soft Conversion Reagent B

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

Soft Conversion Binding Beads

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

5X Soft Conversion Wash Buffer

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Soft Conversion Elution Buffer

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious place in

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recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Soft Conversion Repair

Solution

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Library Binding Beads

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Capture Beads

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Avida Index Primer Pairs

97-192 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

Protection of first-aiders

: Nuclease-Free Water

Recultion shall be taken involving any personal risk or without

suitable training.

End Prep Buffer

No action shall be taken involving any personal risk or without

suitable training.

End Prep Enzyme

No action shall be taken involving any personal risk or without

suitable training.

Ligation Buffer

No action shall be taken involving any personal risk or without

suitable training.

Ligation Enzyme

No action shall be taken involving any personal risk or without

suitable training.

Adapter for ILM

No action shall be taken involving any personal risk or without

suitable training.

Hyb Blocker

No action shall be taken involving any personal risk or without

suitable training.

Hyb Buffer

No action shall be taken involving any personal risk or without

suitable training. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

Hyb Enhancer

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

Soft Conversion Reagent A

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present,

the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

2X Methyl Amplification

Mastermix

No action shall be taken involving any personal risk or without

suitable training.

Library Wash Buffer

No action shall be taken involving any personal risk or without

suitable training.

Hyb Wash Buffer 1

No action shall be taken involving any personal risk or without

suitable training.

Hyb Wash Buffer 2

No action shall be taken involving any personal risk or without

suitable training.

Soft Conversion Reagent B

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.

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Soft Conversion Binding

Beads

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 selfcontained 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.

5X Soft Conversion

Wash Buffer

suitable training.

Soft Conversion Elution

Buffer

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present,

No action shall be taken involving any personal risk or without

the rescuer should wear an appropriate mask or selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

Soft Conversion Repair

Solution

No action shall be taken involving any personal risk or without

suitable training.

Library Binding Beads No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without Capture Beads

suitable training.

97-192 for ILM

Avida Index Primer Pairs No action shall be taken involving any personal risk or without

suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact

: Nuclease-Free Water No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. No specific data. Adapter for ILM Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer

No specific data.

Soft Conversion

Adverse symptoms may include the following:

Reagent A

pain or irritation watering

redness

2X Methyl Amplification

Mastermix

No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. No specific data. Hyb Wash Buffer 2

Soft Conversion

Adverse symptoms may include the following:

Reagent B

pain or irritation

watering redness

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain watering redness

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

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pain watering redness

No specific data.

Soft Conversion Repair

Solution

Library Binding Beads No specific data. Capture Beads No specific data. Avida Index Primer Pairs No specific data.

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: Muclease-Free Water Inhalation 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 No specific data. Adapter for ILM Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Soft Conversion Adverse symptoms may include the following:

Reagent A

reduced foetal weight increase in foetal deaths skeletal malformations

2X Methyl Amplification No specific data.

Mastermix

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion No specific data.

Reagent B

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

respiratory tract irritation

coughing

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

No specific data.

Library Binding Beads No specific data. Capture Beads

Avida Index Primer Pairs No specific data.

No specific data.

No specific data.

97-192 for ILM

Skin contact : Nuclease-Free Water

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. No specific data. Adapter for ILM Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

> irritation redness

Hyb Enhancer Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Soft Conversion Adverse symptoms may include the following:

Reagent A

reduced foetal weight

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Ingestion

increase in foetal deaths skeletal malformations

No specific data.

2X Methyl Amplification

Mastermix

No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 Hyb Wash Buffer 2 No specific data. Soft Conversion No specific data.

Reagent B

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur No specific data.

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

Soft Conversion Repair

No specific data.

Solution

Library Binding Beads

Capture Beads

No specific data. No specific data.

Avida Index Primer Pairs No specific data.

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: Nuclease-Free Water

No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. No specific data. Hyb Blocker Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Soft Conversion

Adverse symptoms may include the following:

Reagent A

reduced foetal weight increase in foetal deaths skeletal malformations

2X Methyl Amplification

Mastermix

No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion No specific data.

Reagent B

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

stomach pains

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

stomach pains No specific data.

Soft Conversion Repair

Solution

No specific data.

Library Binding Beads Capture Beads

No specific data. Avida Index Primer Pairs No specific data.

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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A 2X Methyl Amplification

Mastermix Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs

97-192 for ILM

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

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.

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. 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. 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.

Specific treatments Nuclease-Free Water

Hyb Enhancer

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Soft Conversion No specific treatment. Reagent A 2X Methyl Amplification No specific treatment. Mastermix Library Wash Buffer No specific treatment. Hyb Wash Buffer 1 No specific treatment. No specific treatment. Hyb Wash Buffer 2 Soft Conversion No specific treatment. Reagent B Soft Conversion Binding No specific treatment. Beads 5X Soft Conversion No specific treatment. Wash Buffer Soft Conversion Elution No specific treatment. Buffer Soft Conversion Repair No specific treatment. Solution Library Binding Beads No specific treatment. Capture Beads No specific treatment. Avida Index Primer Pairs No specific treatment.

SECTION 5: Firefighting measures

97-192 for ILM

5.1 Extinguishing media Suitable extinguishing media

: Nuclease-Free Water Use an extinguishing agent suitable for the surrounding fire. End Prep Buffer Use an extinguishing agent suitable for the surrounding fire. End Prep Enzyme Use an extinguishing agent suitable for the surrounding fire. Ligation Buffer Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Ligation Enzyme Adapter for ILM Use an extinguishing agent suitable for the surrounding fire. Hyb Blocker Use an extinguishing agent suitable for the surrounding fire. Hyb Buffer Use an extinguishing agent suitable for the surrounding fire. Hyb Enhancer Use an extinguishing agent suitable for the surrounding fire. Soft Conversion Use an extinguishing agent suitable for the surrounding fire. Reagent A 2X Methyl Amplification Use an extinguishing agent suitable for the surrounding fire. Mastermix Library Wash Buffer Use an extinguishing agent suitable for the surrounding fire. Hyb Wash Buffer 1 Use an extinguishing agent suitable for the surrounding fire. Hyb Wash Buffer 2 Use an extinguishing agent suitable for the surrounding fire. Soft Conversion Use an extinguishing agent suitable for the surrounding fire. Reagent B Soft Conversion Binding Use dry chemical, CO₂, water spray (fog) or foam. Beads 5X Soft Conversion Use an extinguishing agent suitable for the surrounding fire. Wash Buffer Soft Conversion Elution Use an extinguishing agent suitable for the surrounding fire. Buffer Use an extinguishing agent suitable for the surrounding fire. Soft Conversion Repair Solution Library Binding Beads Use an extinguishing agent suitable for the surrounding fire. Capture Beads Use an extinguishing agent suitable for the surrounding fire. Avida Index Primer Pairs Use an extinguishing agent suitable for the surrounding fire. 97-192 for ILM

Unsuitable extinguishing media

Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known. Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known.

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Soft Conversion

Reagent A

None known. None known.

2X Methyl Amplification Mastermix

Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Soft Conversion None known.

Reagent B

Soft Conversion Binding

Do not use water jet.

Beads

5X Soft Conversion

None known.

Wash Buffer

Soft Conversion Elution

None known.

Buffer

Soft Conversion Repair

None known.

Solution Library Binding Beads

None known.

Capture Beads

None known.

Avida Index Primer Pairs None known.

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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.

End Prep Buffer

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

End Prep Enzyme

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

container may burst.

Ligation Buffer

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

container may burst.

Ligation Enzyme

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

container may burst.

Adapter for ILM

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

container may burst.

Hyb Blocker

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

container may burst.

Hyb Buffer

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this

material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hyb Enhancer

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

container may burst.

Soft Conversion

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

container may burst.

Reagent A

2X Methyl Amplification

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

Mastermix

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.

Soft Conversion

Reagent B

Soft Conversion Binding

Beads

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

container may burst.

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to

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SECTION 5: Firefighting measures

Hazardous combustion

products

aquatic life. This material is toxic 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. 5X Soft Conversion In a fire or if heated, a pressure increase will occur and the container may burst. Wash Buffer Soft Conversion Elution In a fire or if heated, a pressure increase will occur and the Buffer container may burst. Soft Conversion Repair In a fire or if heated, a pressure increase will occur and the Solution container may burst. Library Binding Beads In a fire or if heated, a pressure increase will occur and the container may burst. Capture Beads In a fire or if heated, a pressure increase will occur and the container may burst. Avida Index Primer Pairs In a fire or if heated, a pressure increase will occur and the 97-192 for ILM container may burst. : Nuclease-Free Water No specific data. End Prep Buffer Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides End Prep Enzyme Decomposition products may include the following materials: carbon dioxide carbon monoxide Ligation Buffer Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds Ligation Enzyme Decomposition products may include the following materials: carbon dioxide carbon monoxide Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides Hyb Enhancer Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides Soft Conversion Decomposition products may include the following materials: Reagent A carbon dioxide carbon monoxide 2X Methyl Amplification Decomposition products may include the following materials: Mastermix carbon dioxide carbon monoxide

Decomposition products may include the following materials:

Decomposition products may include the following materials:

halogenated compounds

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carbon dioxide carbon monoxide

halogenated compounds metal oxide/oxides

Library Wash Buffer

Hyb Wash Buffer 1

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Hyb Wash Buffer 2 Soft Conversion

metal oxide/oxides No specific data.

Decomposition products may include the following materials:

Reagent B

nitrogen oxides sulfur oxides

Soft Conversion Binding

Beads

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides No specific data.

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

No specific data.

Soft Conversion Repair

Solution

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Decomposition products may include the following materials: Library Binding Beads

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides No specific data.

Capture Beads

Avida Index Primer Pairs No specific data.

97-192 for ILM

5.3 Advice for firefighters Special protective actions for fire-fighters

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion

Reagent A

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

> taken involving any personal risk or without suitable training. 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.

Ligation Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

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

taken involving any personal risk or without suitable training. Adapter for ILM Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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.

2X Methyl Amplification

Promptly isolate the scene by removing all persons from the

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Mastermix vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Library Wash Buffer Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Hyb Wash Buffer 1 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Hyb Wash Buffer 2 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Soft Conversion Promptly isolate the scene by removing all persons from the Reagent B vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Soft Conversion Binding Promptly isolate the scene by removing all persons from the Beads vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 5X Soft Conversion Promptly isolate the scene by removing all persons from the Wash Buffer vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Soft Conversion Elution Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be Buffer taken involving any personal risk or without suitable training. Soft Conversion Repair Promptly isolate the scene by removing all persons from the Solution vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Library Binding Beads Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Capture Beads Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avida Index Primer Pairs Promptly isolate the scene by removing all persons from the 97-192 for ILM vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. : Nuclease-Free Water Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. **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. Fire-fighters should wear appropriate protective equipment End Prep Enzyme and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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. 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. 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. 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. 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. Hyb Enhancer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

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face-piece operated in positive pressure mode.

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Soft Conversion Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

2X Methyl 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.

Library Wash Buffer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Hyb Wash Buffer 1 Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Soft Conversion Reagent B

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Soft Conversion Binding

Beads

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

5X Soft Conversion Wash Buffer

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Soft Conversion Elution

Buffer

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Soft Conversion Repair

Solution

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Library Binding Beads

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Capture Beads

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Avida Index Primer Pairs

97-192 for ILM

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

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. 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

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SECTION 6: Accidental release measures

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.

Hyb Enhancer No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Soft Conversion Reagent A

No action shall be taken involving any personal risk 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.

2X Methyl Amplification

Mastermix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.

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.

Soft Conversion Reagent B

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Soft Conversion Binding

Beads

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

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SECTION 6: Accidental release measures

unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

5X Soft Conversion 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.

Soft Conversion Elution 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Soft Conversion Repair Solution

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

Library Binding Beads

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

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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".

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

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

emergency personnel".

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

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

emergency personnel".

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

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

emergency personnel".

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

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

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

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

emergency personnel".

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

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

emergency personnel".

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

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

emergency personnel".

Soft Conversion Reagent A

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

emergency personnel".

2X Methyl 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".

Hyb Wash Buffer 1 If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

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

emergency personnel".

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

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

emergency personnel".

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

emergency personnel".

Soft Conversion Binding

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".

5X Soft Conversion 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".

Soft Conversion Elution

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".

Soft Conversion Repair

Solution

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".

Avida Index Primer Pairs

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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".

SECTION 6: Accidental release measures

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).

End Prep Buffer Avoid dispersal of spilt material and runoff and contact with

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

quantities.

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).

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

> 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 Ligation Enzyme

> 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).

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

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

(sewers, waterways, 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).

Soft Conversion

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

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

2X Methyl Amplification

Mastermix

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 Library Wash Buffer

> 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 Wash Buffer 1

> 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 Wash Buffer 2

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

(sewers, waterways, soil or air).

Soft Conversion Reagent B

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).

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Soft Conversion 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

5X Soft Conversion 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).

Soft Conversion Elution

Buffer

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

Soft Conversion Repair

Solution

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

(sewers, waterways, soil or air).

Library Binding Beads

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

(sewers, waterways, soil or air).

Capture Beads

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

(sewers, waterways, soil or air).

Avida Index Primer Pairs

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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

Methods for cleaning up : Nuclease-Free Water Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. 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.

Stop leak if without risk. Move containers from spill area. Ligation Enzyme

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.

Stop leak if without risk. Move containers from spill area. Adapter for ILM

> 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.

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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.

Soft Conversion Reagent A

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 Methyl Amplification

Mastermix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

Soft Conversion Reagent B

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Soft Conversion Binding

Beads

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment.

Dilute with water and mop up if water-soluble. Alternatively. or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. May be harmful to the environment if released. Dispose of spillages

under controlled conditions.

5X Soft Conversion Wash Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Soft Conversion Elution

Buffer

Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Move containers from spill area. Dispose of via a licensed waste disposal contractor.

Soft Conversion Repair

Solution

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.

Library Binding Beads

Stop leak if without risk. Move containers from spill area.

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

of via a licensed waste disposal contractor.

Capture Beads Stop leak if without risk. Move containers from spill area.

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

of via a licensed waste disposal contractor.

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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 : Nucle

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

Section 8).

End Prep Buffer Put on appropriate personal protective equipment (see

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

container.

End Prep Enzyme Put on appropriate personal protective equipment (see

Section 8).

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

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

SECTION 7: Handling and storage

Soft Conversion Reagent A

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 Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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 Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion Reagent B

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs

Put on appropriate personal protective equipment (see

Section 8).

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

Put on appropriate personal protective equipment (see

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

Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.

Empty containers retain product residue and can be hazardous. Do not reuse container.

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

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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see

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

Section 8).

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

Put on appropriate personal protective equipment (see

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SECTION 7: Handling and storage

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Advice on general occupational hygiene

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

End Prep Buffer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

End Prep Enzyme Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Ligation Buffer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

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

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Adapter for ILM Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Blocker Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Buffer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Enhancer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, dring

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.

Soft Conversion Reagent A

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

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

2X Methyl Amplification

Mastermix

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

Workers should wash hands and face before eating, drinking

SECTION 7: Handling and storage

and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Library Wash Buffer Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Wash Buffer 1 Eating, drinking and smoking should be prohibited in areas

> where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking

> and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Hyb Wash Buffer 2 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

> Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Soft Conversion Reagent B

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.

Soft Conversion Binding

Beads

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

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

5X Soft Conversion Wash Buffer

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

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Soft Conversion Elution

Buffer

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

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Soft Conversion Repair

Solution

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

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Library Binding Beads Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Capture Beads Eating, drinking and smoking should be prohibited in areas

> where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking

> and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Avida Index Primer Pairs Eating, drinking and smoking should be prohibited in areas

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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.

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.

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

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

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

End Prep 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.

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

SECTION 7: Handling and storage

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 regarded and kept upright to prevent lockeds. Do not store in

resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

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

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

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

resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

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

Soft Conversion Reagent A

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.

2X Methyl 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 Wash Buffer Store in accordance with local regulations. Store in original

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

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

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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.

Soft Conversion Reagent B

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

Soft Conversion Binding Beads

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

5X Soft Conversion Wash Buffer

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

Soft Conversion Elution Buffer

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

Soft Conversion Repair Solution

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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 wellventilated 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.

Capture Beads

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

Avida Index Primer Pairs 97-192 for ILM

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

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Hyb Buffer H3	50 tonne	200 tonne
Soft Conversion Binding Beads P5c E1	5000 tonne 100 tonne	50000 tonne 200 tonne

7.3 Specific end use(s)

Recommendations

: Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion

Industrial applications, Professional applications. Industrial applications, Professional applications.

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Reagent A 2X Methyl Amplification Industrial applications, Professional applications. Mastermix Library Wash Buffer Industrial applications, Professional applications. Hyb Wash Buffer 1 Industrial applications, Professional applications. Industrial applications, Professional applications. Hyb Wash Buffer 2 Industrial applications, Professional applications. Soft Conversion Reagent B Industrial applications, Professional applications. Soft Conversion Binding Beads 5X Soft Conversion Industrial applications, Professional applications. Wash Buffer Soft Conversion Elution Industrial applications, Professional applications. Buffer Soft Conversion Repair Industrial applications, Professional applications. Solution Library Binding Beads Industrial applications, Professional applications. Capture Beads Industrial applications. Professional applications. Avida Index Primer Pairs Industrial applications, Professional applications. 97-192 for ILM

Industrial sector specific solutions

Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Not available. Reagent A 2X Methyl Amplification Not available. Mastermix Library Wash Buffer Not available. Hvb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Not available. Reagent B Soft Conversion Binding Not available. Beads 5X Soft Conversion Not available. Wash Buffer Soft Conversion Elution Not available.

Buffer

Soft Conversion Repair Not available.

Solution

Library Binding Beads Not available. Not available. Capture Beads Avida Index Primer Pairs Not available.

97-192 for ILM

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
End Prep Enzyme Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Ligation Enzyme Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
Hyb Enhancer Formamide	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 56 mg/m³ 15 minutes. STEL: 30 ppm 15 minutes. TWA: 37 mg/m³ 8 hours. TWA: 20 ppm 8 hours.
Soft Conversion Binding Beads ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. 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
Soft Conversion Reagent A					
tetrahydro-2-furyl-methanol	DNEL	Long term Oral	0.175 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.25 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	1.4 mg/m³	Workers	Systemic

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SECTION 8: Exposure controls/personal protection

		Inhalation			
Soft Conversion Binding Beads					
ethanol	DNEL	Long term Inhalation	380 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m ³	General population	Local
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
salts of thiocyanic acid	DNEL	Long term Oral	0.155 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.155 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.27 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.31 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.092 mg/ m ³	Workers	Systemic
	DNEL	Short term Inhalation	3.28 mg/m ³	Workers	Systemic

PNECs

No PNECs available

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.

SECTION 8: Exposure controls/personal protection

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. End Prep Buffer Liquid. End Prep Enzyme Liquid. Ligation Buffer Liquid. Liquid. Ligation Enzyme Liquid. Adapter for ILM Hyb Blocker Liquid. Hyb Buffer Liquid. Hyb Enhancer Liquid. Soft Conversion Liquid.

Reagent A

2X Methyl Amplification Liquid. [Clear.]

Mastermix

Library Wash Buffer Liquid.
Hyb Wash Buffer 1 Liquid.
Hyb Wash Buffer 2 Liquid.
Soft Conversion Liquid.

Reagent B

Soft Conversion Binding Liquid.

Beads

5X Soft Conversion Liquid.

Wash Buffer

Soft Conversion Elution Liquid.

Buffer

Soft Conversion Repair Liquid.

Solution

Library Binding Beads Liquid.
Capture Beads Liquid.
Avida Index Primer Pairs Liquid.

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Colour

Nuclease-Free Water Colourless. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Not available.

Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Not available.

Not available.

SECTION 9: Physical and chemical properties

Hyb Wash Buffer 1 Not available. Not available. Hyb Wash Buffer 2 Soft Conversion Not available. Reagent B Soft Conversion Binding Not available. Beads 5X Soft Conversion Not available. Wash Buffer Soft Conversion Elution Not available. Buffer Not available. Soft Conversion Repair Solution Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs Not available. 97-192 for ILM Nuclease-Free Water Odourless.

Odour

End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Not available. Reagent A 2X Methyl Amplification Not available.

Mastermix

Not available. Not available.

Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B

Library Wash Buffer

Not available. Not available.

Soft Conversion Binding

Not available.

Beads

5X Soft Conversion Wash Buffer

Not available.

Soft Conversion Elution

Not available.

Buffer Soft Conversion Repair

Solution

Not available.

Library Binding Beads Capture Beads Avida Index Primer Pairs

Not available. Not available. Not available.

97-192 for ILM

Odour threshold

: Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Not available. Soft Conversion Reagent A

2X Methyl Amplification

Not available.

Mastermix

Library Wash Buffer Not available. Not available. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not available. Soft Conversion Not available.

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SECTION 9: Physical and chemical properties

Reagent B

Soft Conversion Binding Not available.

Beads

5X Soft Conversion Not available.

Wash Buffer

Soft Conversion Elution Not available.

Buffer

Soft Conversion Repair

Not available.

Solution

Library Binding Beads Not available. Capture Beads Not available.

Avida Index Primer Pairs

Not available.

97-192 for ILM

: Nuclease-Free Water

0°C

Melting point/freezing point

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. Soft Conversion <-120°C

Reagent A

2X Methyl Amplification Not available.

Mastermix

Library Wash Buffer Not available. Not available. Hyb Wash Buffer 1 Hyb Wash Buffer 2 0°C

Soft Conversion Not available.

Reagent B

Soft Conversion Binding Not available.

Beads

5X Soft Conversion 0°C

Wash Buffer

Soft Conversion Elution Not available.

Soft Conversion Repair

Solution

Not available.

Library Binding Beads Not available. Capture Beads Not available.

Avida Index Primer Pairs 0°C

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Initial boiling point and

boiling range

: Nuclease-Free Water

100°C

100°C

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

Hyb Buffer Not available. Hyb Enhancer Not available. 177.7°C Soft Conversion

Reagent A

Hyb Blocker

2X Methyl Amplification Not available.

Mastermix

Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 100°C Soft Conversion Not available.

Reagent B

Soft Conversion Binding Not available.

Beads

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SECTION 9: Physical and chemical properties

5X Soft Conversion 100°C Wash Buffer

Soft Conversion Elution Not available.

Not available.

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Not available. Capture Beads Not available.

Avida Index Primer Pairs 100°C

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Flammability : Nuclease-Free Water

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. Not applicable. Hyb Blocker Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Not applicable. Soft Conversion

Reagent A

2X Methyl Amplification

Mastermix

Not applicable.

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Not applicable.

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion Not applicable.

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs

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Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable.

Not available.

Not available.

Not available.

Not available.

Upper/lower flammability or explosive limits

Nuclease-Free Water **End Prep Buffer**

End Prep Enzyme Ligation Buffer Ligation Enzyme

Not available. Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hvb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Not available.

Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Not available.

Reagent B

Soft Conversion Binding Not available.

Beads

5X Soft Conversion

Wash Buffer Soft Conversion Elution

Not available.

Not available.

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SECTION 9: Physical and chemical properties

Buffer

Soft Conversion Repair Not available.

Solution

Library Binding Beads
Capture Beads
Avida Index Primer Pairs
Not available.
Not available.
Not available.

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Flash point : Nuclease-Free Water

Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Closed cup: 73°C

Reagent A

2X Methyl Amplification Not available.

Mastermix

Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Not available.

Reagent B

Soft Conversion Binding Closed cup: 37.8 to 61°C

Beads

5X Soft Conversion Not available.

Wash Buffer

Soft Conversion Elution Not available.

Buffer

Soft Conversion Repair Not available.

Solution

Library Binding Beads
Capture Beads
Avida Index Primer Pairs
Not available.
Not available.

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	Clo	sed cup	O	oen cup
Ingredient name	°C	Method	°C	Method
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	-

SECTION 9: Physical and chemical properties

Library Wash Buffer				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
Library Binding Beads				
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-

Auto-ignition temperature

: Nuclease-Free Water Not applicable. 2X Methyl Amplification 215°C

Mastermix

Ingredient name	°C	Method
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
Soft Conversion Reagent A		
tetrahydro-2-furyl-methanol	282	-
Library Wash Buffer		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
Soft Conversion Binding Beads		
ethanol	455	DIN 51794
Library Binding Beads		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-

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SECTION 9: Physical and chemical properties

Dec	omp	osit	ion
tem	pera	ture)

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

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Nuclease-Free Water 7 End Prep Buffer 8 End Prep Enzyme 7.5 Ligation Buffer 8 Ligation Enzyme 7.5 Adapter for ILM 8 Hyb Blocker 8 Hyb Buffer 7.5

Hyb Enhancer Not available. Soft Conversion Not available.

Reagent A

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2X Methyl Amplification 8

Mastermix

Library Wash Buffer Not available. Hyb Wash Buffer 1 7.2 to 7.6 Hyb Wash Buffer 2 7.2 to 7.6 Soft Conversion 4.5 to 5.5

Reagent B

Soft Conversion Binding Not available.

Beads

5X Soft Conversion Not available.

Wash Buffer

Soft Conversion Elution 13

Buffer

Soft Conversion Repair 8

Solution

Library Binding Beads 8

Capture Beads Not available.

Avida Index Primer Pairs 8

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SECTION 9: Physical and chemical properties

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

Solubility(ies)

Media	Result
Nuclease-Free Water	
water	Soluble
End Prep Buffer	
water	Soluble
End Prep Enzyme	
water	Soluble
Ligation Buffer	
water	Soluble
Ligation Enzyme	
water	Soluble
Adapter for ILM	
water	Soluble
Hyb Blocker	
water	Soluble
Hyb Buffer	
water	Soluble
Hyb Enhancer	
water	Soluble
Soft Conversion Reagent A	
water	Soluble
2X Methyl Amplification Mastermix	
water	Soluble
Library Wash Buffer	
water	Soluble
Hyb Wash Buffer 1	
water	Soluble
Hyb Wash Buffer 2	
water	Soluble
Soft Conversion Reagent B	
water	Soluble
Soft Conversion Binding Beads	

SECTION 9: Physical and chemical properties

water	Soluble
5X Soft Conversion Wash Buffer	
water	Soluble
Soft Conversion Elution Buffer	
water	Soluble
Soft Conversion Repair Solution	
water	Soluble
Library Binding Beads	
water	Soluble
Capture Beads	
water	Soluble
Avida Index Primer Pairs 97-192 for ILM	
water	Soluble

Partition coefficient: n-octanol/water

Water		Oolui
Nuclease-Free Water	-1.38	•
End Prep Buffer	Not applicable.	
End Prep Enzyme	Not applicable.	
Ligation Buffer	Not applicable.	
Ligation Enzyme	Not applicable.	
Adapter for ILM	Not applicable.	
Hyb Blocker	Not applicable.	
Hyb Buffer	Not applicable.	
Hyb Enhancer	Not applicable.	
Soft Conversion	Not applicable.	
Reagent A		
2X Methyl Amplification	Not applicable.	
Mastermix		
Library Wash Buffer	Not applicable.	
Hyb Wash Buffer 1	Not applicable.	
Hyb Wash Buffer 2	Not applicable.	
Soft Conversion	Not applicable.	
Reagent B		
Soft Conversion Binding	Not applicable.	
Beads		
5X Soft Conversion	Not applicable.	
Wash Buffer		
Soft Conversion Elution	Not applicable.	
Buffer		
Soft Conversion Repair	Not applicable.	
Solution		
Library Binding Beads	Not applicable.	
Capture Beads	Not applicable.	
Avida Index Primer Pairs	Not applicable.	
97-192 for ILM		
Niveleges Free Wester	2.2 kDa /17.5 m	ملا مص

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	
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							

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SECTION 9: Physical and chemical properties

and chemical p	noperi	162				
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	-
Adoptor for II M						
Adapter for ILM	4				40.0	
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	-	-	-	-
Soft Conversion Reagent A						
tetrahydro-2-furyl- methanol	1.4	0.19	-	-	-	-
2X Methyl Amplification Mastermix						
water	17.5	2.3	-	92.258	12.3	-
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Reagent B						

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SECTION 9: Physical and chemical properties

<u>. </u>	<u> </u>		r			
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Binding Beads						
ethanol	42.94865	5.7	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-
5X Soft Conversion Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Elution Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Repair Solution						
water	17.5	2.3	-	92.258	12.3	-
Library Binding Beads						
water	17.5	2.3	-	92.258	12.3	-
Capture Beads						
water	17.5	2.3	-	92.258	12.3	-
Avida Index Primer Pairs 97-192 for ILM						
water	17.5	2.3	-	92.258	12.3	-

Evaporation rate

: Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. **Soft Conversion** Not available. Reagent A 2X Methyl Amplification Not available. Mastermix Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Soft Conversion Not available. Reagent B Soft Conversion Binding Not available.

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SECTION 9: Physical and chemical properties

Relative density

Vapour density

	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	
	Soft Conversion Elution	Not available.
	Buffer	
	Soft Conversion Repair	Not available.
	Solution	Not available.
	Library Binding Beads	Not available.
	Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	97-192 for ILM	Not available.
	97-192 IOI ILIVI	
ŧ,	Nuclease-Free Water	1
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	Not available.
	Reagent A	rtot avallabio.
	2X Methyl Amplification	Not available.
	Mastermix	rtot avallabio.
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	Reagent B	NOL available.
	Soft Conversion Binding	Not available.
	Beads	NOL available.
	5X Soft Conversion	Not available.
	Wash Buffer	NOL available.
	Soft Conversion Elution	Not available.
	Buffer	NOL available.
		Not available.
	Soft Conversion Repair Solution	Not available.
		Not available.
	Library Binding Beads Capture Beads	Not available.
	Avida Index Primer Pairs	Not available.
	97-192 for ILM	Not available.
÷	Nuclease-Free Water	0.62 [Air = 1]
	End Prep Buffer	Not available.
	End Prep Enzyme	Not available.
	Ligation Buffer	Not available.
	Ligation Enzyme	Not available.
	Adapter for ILM	Not available.
	Hyb Blocker	Not available.
	Hyb Buffer	Not available.
	Hyb Enhancer	Not available.
	Soft Conversion	Not available.
	Reagent A	
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Soft Conversion	Not available.
	OUIT COLLACIONI	i vol avallable.

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Not available.

Not available.

Reagent B

Wash Buffer

Beads

Soft Conversion Binding

5X Soft Conversion

SECTION 9: Physical and chemical properties

Explosive properties

Oxidising properties

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

Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair

Solution

Library Binding Beads

Capture Beads Avida Index Primer Pairs Not available. 97-192 for ILM

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion

Reagent A 2X Methyl Amplification

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Not available.

Not available.

Not available. Not available.

Not available. Not available.

Not available. Not available. Not available. Not available. Not available. Not available. Not available.

Not available.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

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SECTION 9: Physical and chemical properties

Solution

Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs Not available.

97-192 for ILM

Particle characteristics

Median particle size

Nuclease-Free Water Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion

Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs Not applicable.

97-192 for ILM

Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

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. **End Prep Buffer** No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this End Prep Enzyme

product or its ingredients.

No specific test data related to reactivity available for this Ligation Buffer

product or its ingredients.

No specific test data related to reactivity available for this Ligation Enzyme

product or its ingredients.

No specific test data related to reactivity available for this Adapter for ILM

product or its ingredients.

No specific test data related to reactivity available for this Hyb Blocker product or its ingredients.

Hyb Buffer 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.

Soft Conversion No specific test data related to reactivity available for this

Reagent A product or its ingredients.

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

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SECTION 10: Stability and reactivity

Mastermix product or its ingredients.

Library Wash Buffer 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 1

product or its ingredients.

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

product or its ingredients.

Soft Conversion No specific test data related to reactivity available for this

Reagent B product or its ingredients.

Soft Conversion Binding No specific test data related to reactivity available for this

Beads product or its ingredients.

5X Soft Conversion No specific test data related to reactivity available for this

Wash Buffer product or its ingredients.

Soft Conversion Elution No specific test data related to reactivity available for this

product or its ingredients.

Soft Conversion Repair No specific test data related to reactivity available for this

product or its ingredients.

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

product or its ingredients.

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

product or its ingredients.

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. **End Prep Buffer** The product is stable. End Prep Enzyme The product is stable. The product is stable. Ligation Buffer The product is stable. Ligation Enzyme The product is stable. Adapter for ILM The product is stable. Hyb Blocker Hyb Buffer The product is stable. Hyb Enhancer

Soft Conversion Reagent A

Buffer

Solution

2X Methyl Amplification

Avida Index Primer Pairs

97-192 for ILM

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads

Capture Beads

97-192 for ILM

The product is stable.

The product is stable.

The product is stable.

The product is stable. The product is stable. The product is stable. The product is stable.

The product is stable.

The product is stable.

The product is stable.

The product is stable.

The product is stable. The product is stable. Avida Index Primer Pairs 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.

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

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.

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SECTION 10: Stability and reactivity

Ligation Enzyme Under normal conditions of storage and use, hazardous

reactions will not occur.

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

reactions will not occur.

Hyb Blocker Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Enhancer Under normal conditions of storage and use, hazardous

reactions will not occur.

Soft Conversion Under normal conditions of storage and use, hazardous

Reagent A reactions will not occur.

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

Mastermix reactions will not occur.

Library Wash Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

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

reactions will not occur.

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

reactions will not occur.

Soft Conversion Under normal conditions of storage and use, hazardous

Reagent B reactions will not occur.

Soft Conversion Binding Under normal conditions of storage and use, hazardous

reactions will not occur.

5X Soft Conversion Under normal conditions of storage and use, hazardous

reactions will not occur.

Soft Conversion Elution Under normal conditions of storage and use, hazardous

reactions will not occur.

Soft Conversion Repair Under normal conditions of storage and use, hazardous

reactions will not occur.

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

reactions will not occur.

Capture Beads Under normal conditions of storage and use, hazardous

reactions will not occur.

Avida Index Primer Pairs Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

: Nuclease-Free Water No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hvb Blocker No specific data. Hvb Buffer No specific data. No specific data. Hyb Enhancer Soft Conversion No specific data.

Reagent A

Beads

Buffer

Solution

Wash Buffer

97-192 for ILM

2X Methyl Amplification

Mastermix

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. No specific data. Soft Conversion

Reagent B

Soft Conversion Binding

Beads

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose

containers to heat or sources of ignition.

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair Solution

No specific data.

No specific data.

No specific data.

No specific data.

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SECTION 10: Stability and reactivity

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

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

10.5 Incompatible materials

: Nuclease-Free Water
End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Hyb Buffer
Hyb Enhancer
Soft Conversion
Reagent A
2X Methyl Amplification

Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Soft Conversion
Reagent B

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Soft Conversion Repair Solution Library Binding Beads

Capture Beads Avida Index Primer Pairs 97-192 for ILM 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. May react or be incompatible with oxidising materials.

Reactive or incompatible with the following materials:

oxidising materials

May react or be incompatible with oxidising materials.

Reactive or incompatible with the following materials:

acids

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

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A 2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

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.

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

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SECTION 10: Stability and reactivity

Hyb Wash Buffer 2

Soft Conversion Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 97-192 for ILM

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.

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
End Prep Buffer	LD50 Dermal	Det Male	>2000 ma/ka	
Magnesium chloride	LD50 Dermai	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
End Prep Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Buffer				
tetramethylammonium chloride	LD50 Dermal	Rabbit - Male, Female	200 to 500 mg/kg	-
	LD50 Oral	Rat	50 mg/kg	-
Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .	LD50 Oral LD50 Oral	Rat Rat	20600 mg/kg 2800 mg/kg	- -
alpha[(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				
Hyb Enhancer				
Formamide	LC50 Inhalation Dusts and mists	Rat - Male	>21 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	17 g/kg 5570 mg/kg	-
Soft Conversion Binding				
Beads				
ethanol	LC50 Inhalation Vapour LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours
salts of thiocyanic acid	LC50 Inhalation Dusts and mists	Rat - Female	3.181 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	593 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[(1,1,3,3-tetramethylbutyl)				
phenyl]omegahydroxy-				

SECTION 11: Toxicological information

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Prep Buffer					
Magnesium chloride	2800	N/A	N/A	N/A	N/A
End Prep Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Enzyme					
Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer					
Hyb Buffer	456.2	2737.2	N/A	N/A	N/A
tetramethylammonium chloride	50	300	N/A	N/A	N/A
Dextran sulfate sodium	20600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	500	N/A	N/A	N/A	N/A
Hyb Enhancer					
Formamide	5570	17000	N/A	N/A	N/A
Soft Conversion Binding Beads					
Soft Conversion Binding Beads	2299.0	5782.2	N/A	N/A	16.7
ethanol	7000	N/A	N/A	124.7	N/A
salts of thiocyanic acid	593	1100	N/A	N/A	3.181
Poly(oxy-1,2-ethanediyl), .alpha[500	N/A	N/A	N/A	N/A
(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-					

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Ligation Enzyme					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Hyb Buffer					
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Soft Conversion Binding Beads					
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-

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

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SECTION 11: Toxicological information

Eyes - Moderate irritant Rabbit 100 uL Eyes - Severe irritant Rabbit 1 % Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-

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.

End Prep Buffer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. End Prep Enzyme Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Ligation Buffer

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Ligation Enzyme Adapter for ILM Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Hyb Blocker Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Hyb Buffer Hyb Enhancer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Soft Conversion Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Not available.

Reagent A

2X Methyl Amplification

Mastermix

Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available.

Soft Conversion

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Soft Conversion Repair Solution

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

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SECTION 11: Toxicological information

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

Not available. Not available. Not available.

Potential acute health effects

Inhalation

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

Causes damage to organs following a single exposure if

inhaled.

Hyb Enhancer Soft Conversion Reagent A

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

No known significant effects or critical hazards.

2X Methyl Amplification Mastermix

Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2

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

Soft Conversion Reagent B

Soft Conversion Binding

Corrosive to the respiratory tract. Causes burns.

5X Soft Conversion

Wash Buffer

No known significant effects or critical hazards.

Soft Conversion Elution

No known significant effects or critical hazards.

Soft Conversion Repair

Solution

No known significant effects or critical hazards.

Library Binding Beads Capture Beads

Avida Index Primer Pairs

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

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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: Nuclease-Free Water Ingestion End Prep Buffer

> End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM

No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Blocker Hyb Buffer Harmful if swallowed. Causes damage to organs following a

single exposure if swallowed.

Hyb Enhancer Soft Conversion No known significant effects or critical hazards. No known significant effects or critical hazards.

Reagent A

2X Methyl Amplification

No known significant effects or critical hazards.

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion

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.

Reagent B

Soft Conversion Binding

Beads

Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards.

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

No known significant effects or critical hazards.

Soft Conversion Repair Solution

No known significant effects or critical hazards.

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Library Binding Beads No known significant effects or critical hazards. No known significant effects or critical hazards. Capture Beads Avida Index Primer Pairs No known significant effects or critical hazards. 97-192 for ILM

Skin contact

: Nuclease-Free Water No known significant effects or critical hazards. End Prep Buffer No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hvb Blocker No known significant effects or critical hazards. Hyb Buffer

Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.

No known significant effects or critical hazards. Hyb Enhancer Soft Conversion No known significant effects or critical hazards. Reagent A

2X Methyl Amplification No known significant effects or critical hazards. Mastermix

Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Soft Conversion No known significant effects or critical hazards.

Soft Conversion Binding Causes severe burns.

Reagent B

Wash Buffer

Beads 5X Soft Conversion No known significant effects or critical hazards.

Soft Conversion Elution Causes severe burns. Buffer

Soft Conversion Repair No known significant effects or critical hazards. Solution

Library Binding Beads No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards. Avida Index Primer Pairs No known significant effects or critical hazards. 97-192 for ILM

Eye contact

No known significant effects or critical hazards. : Nuclease-Free Water No known significant effects or critical hazards. End Prep Buffer 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. No known significant effects or critical hazards. Adapter for ILM Hyb Blocker No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards. Hyb Enhancer

Causes serious eye irritation. Soft Conversion

Reagent A 2X Methyl Amplification No known significant effects or critical hazards.

Mastermix 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 Causes serious eye irritation. Soft Conversion

Reagent B

Soft Conversion Binding Causes serious eye damage.

Soft Conversion Elution

Beads 5X Soft Conversion No known significant effects or critical hazards.

Wash Buffer Causes serious eye damage.

Buffer Soft Conversion Repair No known significant effects or critical hazards.

Solution Library Binding Beads No known significant effects or critical hazards. No known significant effects or critical hazards. Capture Beads Avida Index Primer Pairs No known significant effects or critical hazards.

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97-192 for ILM

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: Muclease-Free Water No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Soft Conversion

Reagent A

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

2X Methyl Amplification

Mastermix

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

No specific data.

Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B

Library Wash Buffer

No specific data.

Soft Conversion Binding

Adverse symptoms may include the following:

Beads

respiratory tract irritation

couahina

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution

Buffer

No specific data.

Soft Conversion Repair

Solution

No specific data.

Library Binding Beads No specific data. Capture Beads

Avida Index Primer Pairs

No specific data.

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No specific data.

Ingestion

: Nuclease-Free Water 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 No specific data. Adapter for ILM 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 skeletal malformations

Soft Conversion Adverse symptoms may include the following:

Reagent A

reduced foetal weight increase in foetal deaths skeletal malformations

2X Methyl Amplification

Mastermix

No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Soft Conversion No specific data.

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Reagent B

Soft Conversion Binding Adverse symptoms may include the following:

Beads

stomach pains No specific data.

5X Soft Conversion Wash Buffer

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

stomach pains

Soft Conversion Repair

Solution

No specific data.

No specific data.

Library Binding Beads

Capture Beads Avida Index Primer Pairs

No specific data. No specific data.

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Skin contact : Nuclease-Free Water

No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

> irritation redness

Adverse symptoms may include the following: Hyb Enhancer

reduced foetal weight increase in foetal deaths skeletal malformations

Soft Conversion

Adverse symptoms may include the following:

Reagent A

reduced foetal weight increase in foetal deaths skeletal malformations

2X Methyl Amplification

Mastermix

No specific data.

Library Wash Buffer No specific data. No specific data. Hvb Wash Buffer 1 Hyb Wash Buffer 2 No specific data. Soft Conversion No specific data.

Reagent B

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur No specific data.

5X Soft Conversion

Wash Buffer

Adverse symptoms may include the following:

Buffer

pain or irritation redness

blistering may occur

Soft Conversion Repair

Soft Conversion Elution

Solution

No specific data. No specific data.

Library Binding Beads

Capture Beads Avida Index Primer Pairs No specific data.

No specific data.

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SECTION 11: Toxicological information

Eye contact

Nuclease-Free Water
End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering

redness

Hyb Enhancer No specific data.

Soft Conversion

Adverse symptoms may include the following:

Reagent A

pain or irritation

watering redness

2X Methyl Amplification

Mastermix

No specific data.

Library Wash Buffer
Hyb Wash Buffer 1
No specific data.
No specific data.
No specific data.
No specific data.

Soft Conversion Reagent B

Adverse symptoms may include the following:

pain or irritation

watering redness

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain watering redness

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

pain watering redness

Soft Conversion Repair

Solution

No specific data.

Library Binding Beads No specific data.
Capture Beads No specific data.
Avida Index Primer Pairs No specific data.

97-192 for ILM

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

Short term exposure

Potential immediate

effects

: Not available.

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.

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: Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards.

Hyb Enhancer May cause damage to organs through prolonged or repeated exposure.

Soft Conversion No known significant effects or critical hazards. Reagent A

2X Methyl Amplification No known significant effects or critical hazards.

Mastermix Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Soft Conversion No known significant effects or critical hazards.

Reagent B Soft Conversion Binding No known significant effects or critical hazards.

Beads

5X Soft Conversion No known significant effects or critical hazards. Wash Buffer

Soft Conversion Elution No known significant effects or critical hazards. Buffer

No known significant effects or critical hazards. Soft Conversion Repair

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

97-192 for ILM

Avida Index Primer Pairs No known significant effects or critical hazards.

Carcinogenicity

Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hvb Blocker No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Buffer

Suspected of causing cancer. Risk of cancer depends on Hyb Enhancer duration and level of exposure.

No known significant effects or critical hazards. Soft Conversion

Reagent A 2X Methyl Amplification No known significant effects or critical hazards.

Mastermix Library Wash Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. Hyb Wash Buffer 1

Hyb Wash Buffer 2 No known significant effects or critical hazards. Soft Conversion No known significant effects or critical hazards. Reagent B

Soft Conversion Binding No known significant effects or critical hazards. Beads

5X Soft Conversion No known significant effects or critical hazards. Wash Buffer

Soft Conversion Elution No known significant effects or critical hazards.

Soft Conversion Repair No known significant effects or critical hazards. Solution

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

Avida Index Primer Pairs No known significant effects or critical hazards. 97-192 for ILM

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SECTION 11: Toxicological information

Buffer

Solution

Library Binding Beads

Avida Index Primer Pairs

Capture Beads

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: Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer No known significant effects or critical hazards. Hyb Enhancer No known significant effects or critical hazards. Soft Conversion No known significant effects or critical hazards. Reagent A 2X Methyl Amplification No known significant effects or critical hazards. Mastermix Library Wash Buffer

No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards. Hyb Wash Buffer 2 No known significant effects or critical hazards. Soft Conversion No known significant effects or critical hazards. Reagent B

Soft Conversion Binding No known significant effects or critical hazards. Beads 5X Soft Conversion No known significant effects or critical hazards.

Wash Buffer Soft Conversion Elution No known significant effects or critical hazards.

No known significant effects or critical hazards. Soft Conversion Repair

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

Reproductive toxicity

Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. May damage fertility or the unborn child. May damage fertility. May damage 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.

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. Avida Index Primer Pairs No known significant effects or critical hazards.

Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair

Library Binding Beads

Capture Beads

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Solution

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SECTION 11: Toxicological information

Other information : End Prep Buffer Adverse symptoms may include the following: May cause

skin sensitisation.

Adapter for ILM Adverse symptoms may include the following: May cause

skin sensitisation.

Hyb Enhancer 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	72 hours
Ğ		subspicatus	
	Acute EC50 180000 µg/l Fresh water	Crustaceans - Calanoid	48 hours
		copepod - Eudiaptomus	
		padanus ssp. padanus - Adult	
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lesser	96 hours
		Duckweed - Lemna	
		aequinoctialis	
	Acute LC50 32000 μg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		hyalina - Adult	
	Acute LC50 2120 mg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Chronic NOEC 0.1 mg/l Fresh water	Fish - common carp - Cyprinus	35 days
		carpio	
End Prep Enzyme			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	
Linetian Francis			
Ligation Enzyme			00.1
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	
Uvb Buffor			
Hyb Buffer	A outo I CEO 462 mg/l Freeh weter	Figh Fotherd minney	96 hours
tetramethylammonium chloride	Acute LC50 462 mg/l Fresh water	Fish - Fathead minnow -	96 Hours
	Aguta EC50 210 ug/l Freeh weter	Pimephales promelas Algae - Green algae -	96 hours
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 μg/l Fresh water	Selenastrum sp.	90 Hours
alpha[(1,1,3,3-tetramethylbutyl)		Selenastrum sp.	
phenyl]omegahydroxy-			
prierryijornegarrydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - Aesop shrimp -	48 hours
	Acute LC30 10000 µg/i Mailile Water	Pandalus montagui - Adult	40 110013
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
	Addic 2000 2.0 to mg/11 resit water		40 Hours
	Acute LC50 7200 μg/l Fresh water	Fish - Rainbow trout,donaldson	96 hours
	7 todio 2000 7200 µg/11 festi water	trout - Oncorhynchus mykiss	Joo Hours
		a sac sincerny nemac my moc	
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
Soft Conversion Reagent A			
tetrahydro-2-furyl-methanol	Acute EC50 >98.9 mg/l	Algae - Algae	72 hours
	Acute EC50 >91.7 mg/l	Daphnia - Daphnia - Daphnia	48 hours
		magna	
	Acute LC50 >101 mg/l	Fish - Goldfish	96 hours
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SECTION 12: Ecological information

Soft Conversion Binding Beads			
ethanol	Acute EC50 3306 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Ostracod - Cypris subglobosa	48 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute LC50 11000000 μg/l Marine water	Fish - Bleak - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	21 days
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - Green algae - Selenastrum sp.	96 hours
	Acute LC50 10800 μg/l Marine water	Crustaceans - Aesop shrimp - Pandalus montagui - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
Soft Conversion Reagent A tetrahydro-2-furyl-methanol Soft Conversion Binding Beads	-	92 % - Readily - 28 days	-	-
salts of thiocyanic acid	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-

Conclusion/Summary : Not available.

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Nuclease-Free Water water	-	-	Readily
Hyb Buffer tetramethylammonium chloride	-	-	Readily
Hyb Enhancer Formamide	-	-	Readily
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	-	-	Readily
Soft Conversion Binding Beads ethanol salts of thiocyanic acid	-	- -	Readily Inherent

12.3 Bioaccumulative potential

LogP _{ow}	BCF	Potential
-1.38	-	Low
-1.76	-	Low
-1.76	-	Low
<-1.6	-	Low
2.7	78.67	Low
-0.82	-	Low
0.722	-	Low
		Low
		Low
2.1	/8.6/	Low
	-1.76 -1.76 <-1.6 2.7 -0.82 -0.722	-1.761.76 - <-1.6 - 2.7 78.67 -0.82 - 0.7220.35 - <-1.7

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

Mobility : Not available.

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SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

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

12.6 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

mazardous waste

<u>Packaging</u>

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 feesible.

recycling is not feasible.

Special precautions
 Dispose of material(s) and residues under controlled conditions. 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	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

Additional information

Remarks: Excepted Quantity

ADR/RID : <u>Hazard identification number</u> 90

<u>Limited quantity</u> See SP 251 <u>Special provisions</u> 251, 340, 671

Tunnel code (E)

IMDG : <u>Emergency schedules</u> F-A, _S-P_

Special provisions 251, 340

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SECTION 14: Transport information

IATA

: Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

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 <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Hyb Buffer Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012
Hyb Enhancer Toxic to reproduction	formamide	Candidate	-	6/18/2012
Soft Conversion Binding Beads Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

SECTION 15: Regulatory information

Product / Ingredient name	Identifiers	Status
End Prep Buffer End Prep Buffer		3
Hyb Buffer Hyb Buffer		3
Hyb Enhancer Hyb Enhancer		3 30
Formamide		30
Soft Conversion Reagent A Soft Conversion Reagent A tetrahydro-2-furyl-methanol		3 30 30
Soft Conversion Reagent B Soft Conversion Reagent B ammonium hydrogensulphite		3 65
Soft Conversion Binding Beads Soft Conversion Binding Beads		3
Soft Conversion Elution Buffer Soft Conversion Elution Buffer		3

Label

: Nuclease-Free Water Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Restricted to professional users. Soft Conversion Reagent A Restricted to professional users. 2X Methyl Amplification Not applicable. Mastermix Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Soft Conversion Reagent B Not applicable. Not applicable. Soft Conversion Binding **Beads** Not applicable. 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Not applicable. Solution Library Binding Beads Not applicable. Not applicable. Capture Beads Avida Index Primer Pairs Not applicable. 97-192 for ILM

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

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SECTION 15: Regulatory information

Category

Hyb Buffer

Н3

Soft Conversion Binding Beads

P5c E1

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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

assessment required.

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

United States : Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging 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

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SECTION 16: Other information

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
Soft Conversion Reagent A	
Eye Irrit. 2, H319	Calculation method
Repr. 1B, H360FD	Calculation method
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Soft Conversion Reagent B	O destada de constituido de
Eye Irrit. 2, H319	Calculation method
Soft Conversion Binding Beads	
Flam. Lig. 3, H226	On basis of test data
Skin Corr. 1C, H314	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method
Soft Conversion Elution Buffer	
Skin Corr. 1, H314	On basis of test data
Full tout of abbreviated II statements	On basis of test data

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

H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. Causes serious eye damage. H318 Causes serious eye irritation. H319 May cause respiratory irritation. H335 Causes damage to organs. H370 H400 Very toxic to aquatic life.

Fatal if swallowed.

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.

Soft

Conversion Reagent A

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

Soft

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Conversion Reagent B

H319 Causes serious eye irritation.

EUH031 Contact with acids liberates toxic gas.

Soft

Conversion Binding Beads

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled.

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.

EUH032 Contact with acids liberates very toxic gas. EUH071 Corrosive to the respiratory tract.

Soft

Conversion Elution Buffer

H314 Causes severe skin burns and eye damage.

Full text of classifications

End Prep Buffer

Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Hyb Buffer

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) ÂQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1 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
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

Soft Conversion Reagent A

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

Soft Conversion Reagent B

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Soft Conversion

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SECTION 16: Other information

Binding Beads

Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Soft Conversion Elution Buffer

Skin Corr. 1 SKIN CORROSION/IRRITATION - Category 1

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Notice to reader

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