SAFETY DATA SHEET



Avida Duo DNA and Methyl Reagent Kit with 1-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9440A

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

1.1 Product identifier

Product name

: Avida Duo DNA and Methyl Reagent Kit with 1-192 Index Primer Pairs for ILM, 96

Reactions, Part Number G9440A

UK (GB) REACH Registration number

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 II M	7732-18-5 Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. 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 Amplification	Not applicable.

2X Amplification Mastermix

2X Methyl Amplification Not applicable.

Mastermix

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

1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

Part no. (chemical kit) Part no.

G9440A

5282-0142/5282-0150 Avida DNA and Duo Reagent Box 2, 96 Reactions/Avida Methyl and Duo Reagent Box 3, 96 Reactions Nuclease-Free Water 5271-0134 Avida Duo Methyl Reagent Box 1, 96 Reactions 5282-0152

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

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Hyb Buffer	5271-0127
Hyb Enhancer	5271-0128
Soft Conversion Reagent A	5271-0137
2X Amplification Mastermix	5271-0129
2X Methyl Amplification Mastermix	5271-0138
Avida DNA and Duo Reagent Box 2, 96	<u>5282-0142</u>
Reactions	
Library Wash Buffer	5271-0130
Hyb Wash Buffer 1	5271-0131
Hyb Wash Buffer 2	5271-0132
Resuspension Buffer	5271-0133
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 Duo Beads Box, 96 Reactions	<u>5282-0154</u>
Library Binding Beads	5271-0135
Capture Beads	5271-0136
Avida Index Primer Pairs 1-192 for ILM	<u>5280-0057</u>
Avida Index Primer Pairs 1-96 for ILM	5274-0079
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	2.953 ml (96 reactions)
Ligation Enzyme	0.695 ml (96 reactions)
Adapter for ILM	0.588 ml (96 reactions)
Hyb Blocker	0.349 ml (96 reactions)
Hyb Buffer	5.524 ml (96 reactions)
Hyb Enhancer	0.988 ml (96 reactions)
Soft Conversion Reagent A	0.387 ml (96 reactions)
2X Amplification Mastermix	2.940 ml (96 reactions)
2X Methyl Amplification Mastermix	2.940 ml (96 reactions)
Library Wash Buffer	2 x 21.12 ml (96 reactions)
Hyb Wash Buffer 1	2 x 31.680 ml (96 reactions)
Hyb Wash Buffer 2	2 x 18.24 ml (96 reactions)
Resuspension Buffer	2.364 ml (96 reactions)

Soft Conversion Reagent B 6 x 0.750 ml

Soft Conversion Binding Beads
5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads

17.280 ml (96 reactions)
8 ml (96 reactions)
0.588 ml (96 reactions)
10.083 ml (96 reactions)
2 x 0.944 ml (96 reactions)

Avida Index Primer Pairs 1-96 for ILM 96 x 0.005 ml 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

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

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

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 Amplification Mixture

Mastermix

2X Methyl Amplification Mixture

Mastermix

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

Reagent B

Soft Conversion Binding Mixture

Beads

5X Soft Conversion Mixture

Wash Buffer

Soft Conversion Elution Mixture

Buffer

Soft Conversion Repair Mixture

Solution

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

1-96 for ILM

Avida Index Primer Pairs Mixture

97-192 for ILM

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

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SECTION 2: Hazards identification

SECTION 2: Haza	ards identificatio	n	
End Prep Buffer			_
H412	LONG-TERM (CHRON	IIC) AQUATIC HAZARD	Category 3
Hyb Buffer			
H302	ACUTE TOXICITY (ora		Category 4
H315	SKIN CORROSION/IRI		Category 2
H370		RGAN TOXICITY - SINGLE EXPOSURE	Category 1
H412	LONG-TERM (CHRON	IIC) AQUATIC HAZARD	Category 3
Hyb Enhancer			
H351	CARCINOGENICITY	WOLT /	Category 2
H360 H373	REPRODUCTIVE TOX	ICH Y RGAN TOXICITY - REPEATED	Category 1B Category 2
11373	EXPOSURE	NGAN TOXICITT - REFEATED	Category 2
Soft Conversion			
Reagent A H319	SERIOUS EYE DAMAG	CE/EVE IDDITATION	Catagony 2
H360FD	REPRODUCTIVE TOX		Category 2 Category 1B
110001 B	NEI NOBOOTIVE TOX		Category 12
Soft Conversion			
Reagent B	CEDIOLIC EVE DAMA	SE/EVE IDDITATION	0-4
H319	SERIOUS EYE DAMAG	SE/ETE IRRITATION	Category 2
Soft Conversion			
Binding Beads			
H226	FLAMMABLE LIQUIDS		Category 3
H314	SKIN CORROSION/IRI		Category 1C
H400 H411	SHORT-TERM (ACUTI	IIC) AQUATIC HAZARD	Category 1 Category 2
Soft Conversion Elution Buffer	`		<i>5</i> ,
H314	SKIN CORROSION/IRI	RITATION	Category 1
Nuclease-Free Water		The product is not classified as hazardous	according to UK CLP
End Drap Buffor		Regulation SI 2019/720 as amended.	parding to LIV CLD
End Prep Buffer		The product is classified as hazardous acc Regulation SI 2019/720 as amended.	cording to UK CLP
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 Regulation SI 2019/720 as amended.	according to UK CLP
Ligation Enzyme		The product is not classified as hazardous	according to UK CLP
Adapter for ILM		Regulation SI 2019/720 as amended. The product is not classified as hazardous	according to UK CLP
Hyb Blocker		Regulation SI 2019/720 as amended. The product is not classified as hazardous	according to UK CLP
Hyb Buffer		Regulation SI 2019/720 as amended. The product is classified as hazardous according to the control of the cont	cording to UK CLP
Hyb Enhancer		Regulation SI 2019/720 as amended. The product is classified as hazardous according to the control of the contr	cording to UK CLP
Soft Conversion Reager	nt A	Regulation SI 2019/720 as amended. The product is classified as hazardous according to the control of the contr	cording to UK CLP
2X Amplification Master	mix	Regulation SI 2019/720 as amended. The product is not classified as hazardous	according to UK CLP
2X Methyl Amplification	Mastermix	Regulation SI 2019/720 as amended. The product is not classified as hazardous	according to UK CLP
Library Wash Buffer		Regulation SI 2019/720 as amended. The product is not classified as hazardous	according to UK CLP
Hyb Mach Duff 4		Regulation SI 2019/720 as amended.	according to LUCOLD
Hyb Wash Buffer 1		The product is not classified as hazardous Regulation SI 2019/720 as amended.	according to UK CLP

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SECTION 2: Hazards identification

Hyb Wash Buffer 2 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 Resuspension Buffer

Regulation SI 2019/720 as amended.

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

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 1-96 for ILM 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%

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

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%

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

unknown acute inhalation toxicity: 1 - 10%

Soft Conversion Reagent A 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%

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

unknown acute inhalation toxicity: 1 - 10%

2X Methyl Amplification

Library Wash Buffer

Soft Conversion Binding

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

unknown acute oral toxicity: 1 - 10%

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%

Percentage of the mixture consisting of ingredient(s) of

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unknown acute dermal toxicity: 1 - 10%

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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

unknown acute inhalation toxicity: 1 - 10%

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

unknown acute inhalation toxicity: 30 - 60%

Ingredients of unknown

ecotoxicity

: Hyb Buffer

Solution

aquatic environment

2X Methyl Amplification

Contains 10% of components with unknown hazards to the

Mastermix

aquatic environment

Contains 3.4% of components with unknown hazards to the

Soft Conversion Reagent B Contains 70% of components with unknown hazards to the

aquatic environment

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

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

2.2 Label elements

Hazard pictograms : Hyb Buffer





Hyb Enhancer



Soft Conversion Reagent A





Soft Conversion Reagent B





Soft Conversion Binding

Beads







Soft Conversion Elution

Buffer



No signal word.

No signal word.

Signal word

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

: Nuclease-Free Water

Soft Conversion Reagent A 2X Amplification Mastermix

No signal word. Danger Danger Danger

No signal word.

2X Methyl Amplification Mastermix

No signal word.

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SECTION 2: Hazards identification

Library Wash Buffer No signal word. Hyb Wash Buffer 1 No signal word. Hyb Wash Buffer 2 No signal word. Resuspension Buffer No signal word. Soft Conversion Warning Reagent B Soft Conversion Binding Danger Beads 5X Soft Conversion No signal word. Wash Buffer Soft Conversion Elution Danger Buffer Soft Conversion Repair No signal word. Solution No signal word. Library Binding Beads Capture Beads No signal word. Avida Index Primer Pairs No signal word. 1-96 for ILM

Hazard statements

Avida Index Primer Pairs 97-192 for ILM	No signal word.
Nuclease-Free Water End Prep Buffer	No known significant effects or critical hazards. 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.
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.
2X Amplification Mastermix	No known significant effects or critical hazards.

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

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

Soft Conversion H319 - Causes serious eye irritation. Reagent B

Soft Conversion Binding H226 - Flammable liquid and vapour.

Beads

H314 - Causes severe skin burns and eye damage.

H410 - Very toxic to aquatic life with long lasting effects.
5X Soft Conversion
Wash Buffer

H410 - Very toxic to aquatic life with long lasting effects.
No known significant effects or critical hazards.

Soft Conversion Elution H314 - Causes severe skin burns and eye damage. Buffer

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

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

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

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SECTION 2: Hazards identification

97-192 for ILM

Precautionary statements

Prevention

: Nuclease-Free Water Not applicable.

P273 - Avoid release to the environment. End Prep Buffer

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

Hyb Enhancer P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or

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.

face protection.

2X Amplification Mastermix

Not applicable.

2X Methyl Amplification

Not applicable.

Mastermix

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

Wash Buffer

Soft Conversion Elution Buffer

P280 - Wear protective gloves, protective clothing and eye or

face protection.

Not applicable.

Soft Conversion Repair

Solution

Not applicable.

Library Binding Beads Not applicable.

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

1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

Response

: Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable. Not applicable. End Prep Enzyme 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 P308 + P313 - IF exposed or concerned: Get medical advice

Reagent A or attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with

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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.

2X Amplification

Mastermix

2X Methyl Amplification

Mastermix

Not applicable.

Not applicable.

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

Not applicable. Resuspension Buffer 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

Library Binding Beads Capture Beads

Avida Index Primer Pairs Not applicable.

1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

Not applicable.

Not applicable.

Not applicable.

Not applicable.

: Nuclease-Free Water

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 Not applicable. Hyb Enhancer Not applicable. Soft Conversion Not applicable.

Reagent A

2X Amplification Not applicable.

Mastermix

2X Methyl Amplification

Mastermix

Not applicable.

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

Reagent B

Soft Conversion Binding Not applicable.

Beads

5X Soft Conversion

Wash Buffer

Not applicable.

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Storage

SECTION 2: Hazards identification

Disposal

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

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

1-96 for ILM

Avida Index Primer Pairs Not applicable.

Not applicable.

Not applicable.

97-192 for ILM

: Nuclease-Free Water

Not applicable.

End Prep Buffer P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

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

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

all local, regional, national and international regulations.

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

all local, regional, national and international regulations.

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

2X Amplification Not applicable.

Mastermix

2X Methyl Amplification

Mastermix

Not applicable.

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

1-96 for ILM

Avida Index Primer Pairs

97-192 for ILM

P501 - Dispose of contents and container in accordance with

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

all local, regional, national and international regulations.

Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

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.-[Beads

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

Supplemental label elements

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

End Prep Enzyme Safety data sheet available on request.

Not applicable. Ligation Buffer

Ligation Enzyme Safety data sheet available on request.

Not applicable. Adapter for ILM Hyb Blocker Not applicable. Not applicable. Hyb Buffer

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Hyb Enhancer Not applicable. Soft Conversion Not applicable.

Reagent A

2X Amplification Safety data sheet available on request.

Mastermix

2X Methyl Amplification Not applicable.

Mastermix

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

Avida Index Primer Pairs Not applicable.

1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

Annex XVII - Restrictions

on the manufacture,

and use of certain

placing on the market

dangerous substances,

mixtures and articles

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

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

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

Reagent A

2X Amplification Not applicable.

Mastermix

2X Methyl Amplification Not applicable.

Mastermix

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

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

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SECTION 2: Hazards identification

Special packaging requirements

Containers to be fitted with child-resistant fastenings

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

Reagent A

2X Amplification

Mastermix

2X Methyl Amplification

Mastermix

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

1-96 for ILM

Avida Index Primer Pairs

97-192 for ILM

Not applicable.

Tactile warning of danger

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

Reagent A

2X Amplification

Mastermix

2X Methyl Amplification

Mastermix

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

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

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SECTION 2: Hazards identification

Buffer

Soft Conversion Repair

Solution

Library Binding Beads

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

1-96 for ILM

Reagent B

Buffer

Avida Index Primer Pairs Not applicable.

Not applicable.

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	vP	vB
Nuclease- Free Water Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

End Prep Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

End Prep Enzyme This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are Ligation Buffer

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.

This mixture does not contain any substances that are Adapter for ILM

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.

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 Amplification This mixture does not contain any substances that are

assessed to be a PBT or a vPvB. Mastermix

2X Methyl Amplification This mixture does not contain any substances that are

assessed to be a PBT or a vPvB. Mastermix

Library Wash Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Wash Buffer 1 This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Hyb Wash Buffer 2 This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Resuspension Buffer This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

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

assessed to be a PBT or a vPvB. Beads

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.

Solution 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.

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SECTION 2: Hazards identification

Avida Index Primer Pairs 1-96 for ILM

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Avida Index Primer Pairs 97-192 for ILM

This mixture does not contain any substances that are

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. Hvb Buffer None known. Hyb Enhancer None known. Soft Conversion None known.

Reagent A

2X Amplification

None known.

Mastermix

2X Methyl Amplification

Mastermix

None known.

Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Resuspension Buffer 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

Soft Conversion Repair

None known.

Solution

Library Binding Beads Capture Beads Avida Index Primer Pairs None known

None known. None known.

1-96 for ILM

97-192 for ILM

Avida Index Primer Pairs None known.

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 Mixture **End Prep Buffer** End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hvb Buffer Mixture Hyb Enhancer Mixture Soft Conversion Reagent A Mixture 2X Amplification Mastermix Mixture 2X Methyl Amplification Mastermix Mixture Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture

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SECTION 3: Composition/information on ingredients

Hyb Wash Buffer 2 Mixture Resuspension Buffer 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 1-96 for Mixture ILM Avida Index Primer Pairs 97-192 Mixture

for IL			T	T
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]
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	[1]
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	CAS: 9036-19-5	<0.1	STOT SE 3, H335 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]

SECTION 3: Composition/information on ingredients

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	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]
	2X Amplification Mastermix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	[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 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [3]
				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.

<u>Type</u>

Nuclease-Free Water [1] Constituent [1] Substance classified with a health or environmental hazard End Prep Buffer End Prep Enzyme [1] Substance with a workplace exposure limit Ligation Enzyme [1] Substance with a workplace exposure limit [1] Substance classified with a health or environmental hazard Hyb Buffer [2] Substance of equivalent concern [1] Substance classified with a health or environmental hazard Hyb Enhancer [2] Substance with a workplace exposure limit Soft Conversion Reagent A [1] Substance classified with a health or environmental hazard [1] Substance with a workplace exposure limit 2X Amplification Mastermix [1] Substance classified with a health or environmental hazard Soft Conversion Reagent B [1] Substance classified with a health or environmental hazard Soft Conversion Binding Beads

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Nuc

: 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 Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

Soft Conversion Reagent B

Soft Conversion 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. 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.

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

Get medical attention.

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.

Get medical attention.

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

SECTION 4: First aid measures

Inhalation

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

1-96 for ILM

97-192 for ILM

Avida Index Primer Pairs

Avida Index Primer Pairs

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

physician.

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. 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.

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.

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

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 delay

decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

comfortable for breathing. Get medical attention if symptoms occur.

occur.
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 comfortable for breathing. Get medical attention if symptoms

occur.

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

occur.

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

occur.

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

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

surveillance for 48 hours.

SECTION 4: First aid measures

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

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.

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Library Wash Buffer

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

occur

Hyb Wash Buffer 1

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

occur.

Hyb Wash Buffer 2

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

occur.

Resuspension Buffer

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

occur.

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 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

SECTION 4: First aid measures

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 occur.

collar, tie, belt or waistband. In case of inhalation of

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

1-96 for ILM

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

: Nuclease-Free Water

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

symptoms occur.

End Prep Buffer

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

symptoms occur.

End Prep Enzyme

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

symptoms occur.

Ligation Buffer

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

symptoms occur.

Ligation Enzyme

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

symptoms occur.

Adapter for ILM

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

symptoms occur.

Hyb Blocker

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

symptoms occur.

Hyb Buffer

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

Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove

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Hyb Enhancer

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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 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated Reagent A clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. 2X Amplification Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if Mastermix symptoms occur. 2X Methyl Amplification Flush contaminated skin with plenty of water. Remove Mastermix 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. Flush contaminated skin with plenty of water. Remove Resuspension Buffer contaminated clothing and shoes. Get medical attention if symptoms occur. Soft Conversion Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if Reagent B symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Call a poison center or Soft Conversion Binding Beads 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 Flush contaminated skin with plenty of water. Remove Wash Buffer

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

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.

1-96 for ILM

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

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symptoms occur.

Avida Index Primer Pairs Flush contaminated skin with plenty of water. Remove 97-192 for ILM

contaminated clothing and shoes. Get medical attention if

symptoms occur.

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

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

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

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

so by medical personnel.

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

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

occur.

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

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

occur.

Ligation 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.

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

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

occur.

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

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

occur.

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

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

place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

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

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

Soft Conversion Wash out mouth with water. Remove dentures if any. If Reagent A material has been swallowed and the exposed person is

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

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

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

Resuspension Buffer

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

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

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5X Soft Conversion Wash Buffer

collar, tie, belt or waistband.

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

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 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

1-96 for ILM

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

occur.

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 occur.

Protection of first-aiders

: Nuclease-Free Water

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without End Prep Buffer

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,

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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 Amplification Mastermix

No action shall be taken involving any personal risk or without

suitable training.

2X Methyl Amplification

No action shall be taken involving any personal risk or without

Mastermix

suitable training.

Library Wash Buffer

No action shall be taken involving any personal risk or without

suitable training.

Hyb Wash Buffer 1

No action shall be taken involving any personal risk or without

suitable training.

Hyb Wash Buffer 2

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

Resuspension Buffer

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

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.

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

No action shall be taken involving any personal risk or without

suitable training.

Soft Conversion Elution

No action shall be taken involving any personal risk or without

Buffer

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 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.

Capture Beads

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

Avida Index Primer Pairs

No action shall be taken involving any personal risk or without

1-96 for ILM

97-192 for ILM

suitable training.

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

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Eye contact	:	Nι	ıcl	eas	e-Fi
		_		_	_

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

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer No specific data.

Soft Conversion Reagent A

Adverse symptoms may include the following:

pain or irritation watering redness

2X Amplification

Mastermix

No specific data.

No specific data.

2X Methyl Amplification Mastermix

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

No specific data.

No specific data.

5X Soft Conversion

Wash Buffer

Soft Conversion Elution

Buffer

Adverse symptoms may include the following:

pain watering redness

Soft Conversion Repair

Solution

Library Binding Beads No specific data. Capture Beads No specific data.

Avida Index Primer Pairs No specific data. 1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

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. 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:

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Reagent A

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

2X Amplification

Mastermix

No specific data.

2X Methyl Amplification Mastermix

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

No specific data.

Soft Conversion Repair

Solution

No specific data.

Library Binding Beads Capture Beads

No specific data. No specific data.

Avida Index Primer Pairs No specific data.

1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

End Prep Buffer

Ligation Buffer

End Prep Enzyme

: Nuclease-Free Water

No specific data. No specific data.

Ligation Enzyme Adapter for ILM Hyb Blocker

Hyb Buffer

No specific data. 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

Reagent A

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification

Mastermix

No specific data.

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. Resuspension Buffer No specific data.

Reagent B

Soft Conversion

Soft Conversion Binding Adverse symptoms may include the following:

No specific data.

Beads

pain or irritation redness

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Skin contact

SECTION 4: First aid measures

Ingestion

blistering may occur 5X Soft Conversion No specific data.

Wash Buffer

Soft Conversion Elution Buffer

Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

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.

1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

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

Hyb Buffer No specific data. 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 No specific data.

2X Amplification

Mastermix

2X Methyl Amplification

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Soft Conversion

Resuspension Buffer

Mastermix

No specific data.

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

Adverse symptoms may include the following:

Soft Conversion Elution Buffer

stomach pains

Soft Conversion Repair No specific data.

Solution

Library Binding Beads

No specific data.

Capture Beads Avida Index Primer Pairs No specific data.

No specific data.

1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

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 1-96 for ILM Avida Index Primer Pairs 97-192 for ILM

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

SECTION 4: First aid measures

Speci	fic trea	tments
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Nuclease-Free Water No specific treatment. No specific treatment. End Prep Buffer End Prep Enzyme No specific treatment. Ligation Buffer No specific treatment. Ligation Enzyme No specific treatment. Adapter for ILM No specific treatment. No specific treatment. Hyb Blocker No specific treatment. Hyb Buffer Hyb Enhancer No specific treatment. Soft Conversion No specific treatment. Reagent A 2X Amplification No specific treatment. Mastermix 2X Methyl Amplification No specific treatment. Mastermix Library Wash Buffer No specific treatment. Hyb Wash Buffer 1 No specific treatment. Hyb Wash Buffer 2 No specific treatment. Resuspension Buffer No specific treatment. 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. 1-96 for ILM Avida Index Primer Pairs No specific treatment. 97-192 for ILM

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hvb Blocker Hvb Buffer Hvb Enhancer Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads

5X Soft Conversion

: Nuclease-Free Water

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

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

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

Use dry chemical, CO₂, water spray (fog) or foam.

Use an extinguishing agent suitable for the surrounding fire.

SECTION 5: Firefighting measures

Wash Buffer

Soft Conversion Elution Use an extinguishing agent suitable for the surrounding fire.

Buffer

Soft Conversion Repair

Solution

Use an extinguishing agent suitable for the surrounding fire.

Library Binding Beads

Capture Beads Avida Index Primer Pairs

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

1-96 for ILM

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.

Soft Conversion Reagent A

Hyb Enhancer

2X Amplification None known.

Mastermix

2X Methyl Amplification

Mastermix

None known.

Do not use water jet.

None known.

None known.

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

Reagent B

Soft Conversion Binding

Beads

5X Soft Conversion None known.

Wash Buffer

Soft Conversion Elution None known.

Buffer

5.2 Special hazards arising from the substance or mixture

Soft Conversion Repair

Solution

None known.

Library Binding Beads

Capture Beads

None known.

Avida Index Primer Pairs None known.

1-96 for ILM

None known.

97-192 for ILM

Avida Index Primer Pairs None known.

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

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SECTION 5: Firefighting measures

container may burst.

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

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

Reagent A container may burst.

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

Mastermix container may burst.

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.

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

container may burst.

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

container may burst.

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

container may burst.

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

Reagent B container may burst.

Soft Conversion Binding 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 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

Wash Buffer container may burst.

Soft Conversion Elution In a fire or if heated, a pressure increase will occur and the container may burst. Buffer

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

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

1-96 for ILM

Beads

Hazardous combustion

products

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

Decomposition products may include the following materials: End Prep Enzyme

> carbon dioxide carbon monoxide

Ligation Buffer Decomposition products may include the following materials:

> carbon dioxide carbon monoxide

nitrogen oxides halogenated compounds 32/97

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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

Reagent A

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

2X Amplification

Mastermix

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

2X Methyl Amplification

Mastermix

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Decomposition products may include the following materials: Library Wash Buffer

> carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

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

> halogenated compounds metal oxide/oxides No specific data.

Hyb Wash Buffer 2 Resuspension Buffer

Soft Conversion Reagent B

No specific data.

Decomposition products may include the following materials:

nitrogen oxides sulfur oxides

Soft Conversion Binding

Beads

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

5X Soft Conversion

Wash Buffer

No specific data.

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

Library Binding Beads Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds

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SECTION 5: Firefighting measures

Capture Beads Avida Index Primer Pairs No specific data. 1-96 for ILM Avida Index Primer Pairs No specific data. 97-192 for ILM

metal oxide/oxides No specific data.

5.3 Advice for firefighters **Special protective** actions for fire-fighters

: 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 Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

Soft Conversion Reagent B

Soft Conversion Binding

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

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

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

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.

taken involving any personal risk or without suitable training.

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

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SECTION 5: Firefighting measures

Special protective

equipment for fire-

fighters

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 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 Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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 and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

face-piece operated in positive pressure mode.

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

face-piece operated in positive pressure mode.

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

face-piece operated in positive pressure mode.

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

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment

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

face-piece operated in positive pressure mode.

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

face-piece operated in positive pressure mode.

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

face-piece operated in positive pressure mode.

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 and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SECTION 5: Firefighting measures

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.

Resuspension 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 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

1-96 for ILM

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

face-piece operated in positive pressure mode.

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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.

No action shall be taken involving any personal risk or without Ligation Enzyme

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do

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SECTION 6: Accidental release measures

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 respirator when ventilation is madequate. Pu

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 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.

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.

Resuspension Buffer
No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

personal protective equipment.

SECTION 6: Accidental release measures

Beads

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

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

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.

Avida Index Primer Pairs

1-96 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.

Avida Index Primer Pairs

97-192 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.

For emergency : Nuclease-Free Water

responders

Iuclease-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-

SECTION 6: Accidental release measures

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".

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

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

emergency personnel".

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

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

emergency personnel".

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

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

emergency personnel".

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

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

emergency personnel".

Soft Conversion If spe Reagent A take

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

emergency personnel".

2X Amplification Mastermix If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

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

emergency personnel".

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".

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

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

emergency personnel".

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

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

emergency personnel".

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

emergency personnel".

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

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

emergency personnel".

Soft Conversion Reagent B

ersion 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

SECTION 6: Accidental release measures

unsuitable materials. See also the information in "For nonemergency 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".

Library 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".

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".

Avida Index Primer Pairs

97-192 for ILM

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

emergency personnel".

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).

Ligation Buffer

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

(sewers, waterways, soil or air).

Ligation Enzyme

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

(sewers, waterways, soil or air).

Adapter for ILM

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

(sewers, waterways, soil or air).

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.

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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 soil, waterways, drains and sewers. Inform the relevant Reagent A

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

2X Amplification Avoid dispersal of spilt material and runoff and contact with Mastermix

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).

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

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

(sewers, waterways, soil or air).

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).

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

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).

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).

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

> 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 Avoid dispersal of spilt material and runoff and contact with

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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

97-192 for ILM

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

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.

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

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.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

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

of via a licensed waste disposal contractor.

2X Amplification Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, Mastermix

or if water-insoluble, absorb with an inert dry material and

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Reagent A

SECTION 6: Accidental release measures

Mastermix

place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

2X Methyl Amplification Stop leak if without risk. Move containers from spill area.

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

of via a licensed waste disposal contractor.

Library 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.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

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

of via a licensed waste disposal contractor.

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

Soft Conversion Elution

Buffer

of via a licensed waste disposal contractor.

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, 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

SECTION 6: Accidental release measures

place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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1-96 for ILM

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

of via a licensed waste disposal contractor.

Avida Index Primer Pairs 97-192 for ILM

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

6.4 Reference to other sections

Protective measures

: 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

: 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 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.

Soft Conversion Put on appropriate personal protective equipment (see

SECTION 7: Handling and storage

Reagent A

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 Amplification Mastermix

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

2X Methyl Amplification

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

Mastermix Library Wash Buffer

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

Hyb Wash Buffer 1

Put on appropriate personal protective equipment (see

Section 8).

Hyb Wash Buffer 2

Put on appropriate personal protective equipment (see

Section 8).

Resuspension Buffer

Put on appropriate personal protective equipment (see

Section 8).

Soft Conversion Reagent B

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.

Soft Conversion Binding Beads

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.

5X Soft Conversion
Wash Buffer
Soft Conversion Fluit

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

Put on appropriate personal protective equipment (see

Soft Conversion Elution Buffer

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

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

Soft Conversion Repair

Solution

Put on appropriate personal protective equipment (see

Section 8).

Section 8).

Library Binding Beads

Capture Beads

Put on appropriate personal protective equipment (see

Section 8).

Avida Index Primer Pairs Put on appropriate personal protective equipment (see

SECTION 7: Handling and storage

1-96 for ILM Section 8).

Avida Index Primer Pairs Put on appropriate personal protective equipment (see 97-192 for ILM

Section 8).

Advice on general occupational hygiene : Nuclease-Free Water Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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

equipment before entering eating areas. See also Section 8 for 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.

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

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SECTION 7: Handling and storage

2X Amplification Eating, drinking and smoking should be prohibited in areas Mastermix 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 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.

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

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

for additional information on hygiene measures.

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

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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

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

1-96 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.

Avida Index Primer Pairs 97-192 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.

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.

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

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.

Adapter 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.

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

> 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.

Hyb Buffer 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully

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

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

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

container protected from direct sunlight in a dry, cool and wellventilated 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.

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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully

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Soft Conversion Reagent A

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SECTION 7: Handling and storage

2X Amplification Mastermix

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 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.

2X Methyl Amplification Mastermix

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.

Library Wash Buffer

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.

Hyb Wash Buffer 1

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.

Hyb Wash Buffer 2

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.

Resuspension Buffer

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

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Soft Conversion Reagent B

before handling or use.

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.

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 wellventilated 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 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.

Soft Conversion Elution Buffer

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. 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

> 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.

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SECTION 7: Handling and storage

Capture Beads

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

Avida Index Primer Pairs 1-96 for ILM Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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 well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

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 Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1

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

Industrial applications, Professional applications.

Industrial applications, Professional applications.

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

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Hyb Wash Buffer 2 Industrial applications, Professional applications. Industrial applications, Professional applications. Resuspension Buffer Industrial applications, Professional applications. Soft Conversion Reagent B Soft Conversion Binding Industrial applications, Professional applications. Beads 5X Soft Conversion Industrial applications, Professional applications. Wash Buffer Industrial applications, Professional applications. Soft Conversion Elution Buffer Industrial applications, Professional applications. Soft Conversion Repair Solution Library Binding Beads Industrial applications, Professional applications. Industrial applications, Professional applications. Capture Beads Industrial applications, Professional applications. Avida Index Primer Pairs 1-96 for ILM 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 Amplification Not available. Mastermix 2X Methyl Amplification Not available. Mastermix Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer 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. 1-96 for ILM 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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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

Avida Duo DNA and Methyl Reagent Kit with 1-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9440A

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.
2X Amplification Mastermix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
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	General	Systemic
Magnesiam onionae	BIVEE	Long term oral	bw/day	population	Cyclemic
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/m³	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	General	Systemic

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SECTION 8: Exposure controls/personal protection

			bw/day	population	
	DNEL	Long term Dermal	1 mg/kg	Workers	Systemic
	DINEL	Long term Demia	bw/day	WOIKEIS	Systemic
	DNIEL	Long torm		Workers	Cuatamia
	DNEL	Long term	1.4 mg/m ³	vvoikeis	Systemic
		Inhalation			
Soft Conversion Binding Beads					
ethanol	DNEL	Long term	380 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	87 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	114 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	206 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	343 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	950 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	1900 mg/	Workers	Local
		Inhalation	m³		
salts of thiocyanic acid	DNEL	Long term Oral	0.155 mg/	General	Systemic
,			kg bw/day	population	,
	DNEL	Long term Dermal	0.155 mg/	General	Systemic
			kg bw/day	population	- j
	DNEL	Long term	0.27 mg/m ³	General	Systemic
		Inhalation	J.=g,	population	- ,
	DNEL	Long term Dermal	0.31 mg/	Workers	Systemic
	DITEL	Long tomi Domia	kg bw/day	TTOTROID	- Systollilo
	DNEL	Long term	1.092 mg/	Workers	Systemic
	DIVLL	Inhalation	m ³	VVOINCIS	Cycloniio
	DNEL	Short term	3.28 mg/m ³	Workers	Systemic
	DIVEL	Inhalation	3.20 mg/m	VVOIKEIS	Systemic
		IIIIIalallUII			

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.

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

Avida Duo DNA and Methyl Reagent Kit with 1-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9440A

SECTION 8: Exposure controls/personal protection

Body protection

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

Other skin protection

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

Respiratory protection

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

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state

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

Reagent A

2X Amplification Liquid.

Mastermix

2X Methyl Amplification Liquid. [Clear.]

Mastermix

Library Wash Buffer Liquid. Hyb Wash Buffer 1 Liquid. Hyb Wash Buffer 2 Liquid. Resuspension Buffer 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.

1-96 for ILM

Avida Index Primer Pairs Liquid.

97-192 for ILM

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End Prep Buffer

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Colourless.

Not available.

SECTION 9: Physical and chemical properties

Colour

	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.
		Not available.
	Reagent A	Not available
	2X Amplification	Not available.
	Mastermix	N 1 ()1 ()
	2X Methyl Amplification	Not available.
	Mastermix	
	Library Wash Buffer	Not available.
	Hyb Wash Buffer 1	Not available.
	Hyb Wash Buffer 2	Not available.
	Resuspension Buffer	Not available.
	Soft Conversion	Not available.
	Reagent B	
	Soft Conversion Binding	Not available.
	Beads	
	5X Soft Conversion	Not available.
	Wash Buffer	Not available.
		Not eveilable
	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.
	1-96 for ILM	
	1-96 for ILM	Not available.
	1-96 for ILM Avida Index Primer Pairs	Not available.
Odour	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM	
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water	Odourless.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme	Odourless. Not available. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer	Odourless. Not available. Not available. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	Odourless. Not available. Not available. Not available. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	Odourless. Not available. Not available. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme	Odourless. Not available. Not available. Not available. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM	Odourless. Not available. Not available. Not available. Not available. Not available. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 97-192 for ILM Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion	Odourless. Not available.
Odour :	1-96 for ILM Avida Index Primer Pairs 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 Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer	Odourless. Not available.

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Not available.

Soft Conversion Repair

SECTION 9: Physical and chemical properties

Solution

Solution	
Library Binding Beads	Not available.
Capture Beads	Not available.
Avida Index Primer Pairs	Not available.
1-96 for II M	

Avida Index Primer Pairs 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. Soft Conversion Not available.

Reagent A

2X Amplification

Mastermix

2X Methyl Amplification Not available.

Not available.

Not available.

Mastermix

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

Reagent B

Soft Conversion Binding Not available.

Beads

5X Soft Conversion

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.

1-96 for ILM

Avida Index Primer Pairs Not available.

97-192 for ILM

Melting point/freezing point

: Nuclease-Free Water 0°C

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

Adapter for ILM 0°C Hyb Blocker 0°C

Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion <-120°C

Reagent A

2X Amplification Not available.

Mastermix

2X Methyl Amplification Not available.

Mastermix

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

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

Soft Conversion Not available.

Reagent B

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Soft Conversion Binding Not available. Beads 5X Soft Conversion 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 0°C 1-96 for ILM Avida Index Primer Pairs 0°C 97-192 for ILM : Nuclease-Free Water 100°C End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available.

Initial boiling point and boiling range

Ligation Enzyme Not available. Adapter for ILM 100°C Hvb Blocker 100°C Hvb Buffer Not available. Hyb Enhancer Not available. Soft Conversion 177.7°C

Reagent A

2X Amplification Not available.

Not applicable.

100°C

Mastermix

2X Methyl Amplification

Mastermix

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

Soft Conversion Not available.

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 100°C

1-96 for ILM

Avida Index Primer Pairs 100°C

97-192 for ILM

Flammability : Nuclease-Free Water 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 Amplification Not applicable.

Mastermix

2X Methyl Amplification Not applicable.

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SECTION 9: Physical and chemical properties

and chemical pro	perties
Mastermix	
Library Wash Buffer	Not applicable.
Hyb Wash Buffer 1	Not applicable.
Hyb Wash Buffer 2	Not applicable.
Resuspension Buffer	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.
1-96 for ILM	
Avida Index Primer Pairs	Not applicable.
97-192 for ILM	
Nuclease-Free Water	Not available.
End Prep Buffer	Not available.
End Prep Enzyme	Not available.
Lingtion Duffer	Not eveilable

Upper/lower flammability : or explosive limits

Avida Index Primer Pairs 97-192 for ILM	Not applicable
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 Amplification	Not available.
Mastermix	
2X Methyl Amplification	Not available.
Mastermix	
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion	Not available.
Reagent B	
Soft Conversion Binding	Not available.
Beads	N. 4
5X Soft Conversion	Not available.
Wash Buffer	N1 - 4 21 - 1 - 1 -
Soft Conversion Elution	Not available.
Buffer	NI-4
Soft Conversion Repair	Not available.
Solution	Niet evelleble
Library Binding Beads	Not available.
Capture Beads	Not available.
Avida Index Primer Pairs	Not available.
1-96 for ILM	Not available
Avida Index Primer Pairs	Not available.
97-192 for ILM	

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SECTION 9: Physical and chemical properties

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 Amplification Not available.

Mastermix

2X Methyl Amplification Not available.

Mastermix

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

1-96 for ILM

Avida Index Primer Pairs Not available.

97-192 for ILM

	Clo	sed cup	O	pen 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	-
2X Amplification Mastermix				

SECTION 9: Physical and chemical properties

glycerol	-	-	177	-
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

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	-
2X Amplification Mastermix		
glycerol	370	-
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		
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SECTION 9: Physical and chemical properties

Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-360 Ethane-1,2-diol, ethoxylated

Decomposition temperature

: 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 Amplification Not available.

Mastermix

2X Methyl Amplification

Mastermix

Not available.

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

Soft Conversion Binding

Beads

5X Soft Conversion Not available.

Wash Buffer

Soft Conversion Elution Not available.

Buffer

Soft Conversion Repair

Not available.

Not available.

Solution

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

1-96 for ILM

Avida Index Primer Pairs Not available.

97-192 for ILM

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

Hyb Buffer 7.5 Hyb Enhancer Not available. Soft Conversion Not available.

Reagent A

2X Amplification Not available.

Mastermix

2X Methyl Amplification 8.6

Mastermix

Library Wash Buffer Not available. Hyb Wash Buffer 1 7.2 to 7.6 Hyb Wash Buffer 2 7.2 to 7.6 Resuspension Buffer 8 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

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pH

8

SECTION 9: Physical and chemical properties

Rι	ıffa
-	H

Soft Conversion Repair

Solution

Library Binding Beads 8

Capture Beads Not available.

Avida Index Primer Pairs 8

1-96 for ILM

Avida Index Primer Pairs 8

97-192 for ILM

Viscosity

: 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 Amplification Not available.

Mastermix

2X Methyl Amplification

Not available.

Mastermix

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

1-96 for ILM

Avida Index Primer Pairs Not available.

97-192 for ILM

Sol

olubility(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	
		<u> </u>

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	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
	Resuspension Buffer	
	water	Soluble
	Soft Conversion Reagent B	0.1.1
	water	Soluble
	Soft Conversion Binding Beads	Calvible
	water 5X Soft Conversion Wash Buffer	Soluble
	water	Soluble
	water Soft Conversion Elution Buffer	Soluble
	water	Soluble
	Soft Conversion Repair Solution	Colubie
	water	Soluble
	Library Binding Beads	Colubio
	water	Soluble
	Capture Beads	
	water	Soluble
	Avida Index Primer Pairs 1-96 for ILM	
	water	Soluble
	Avida Index Primer Pairs 97-192 for ILM	
	water	Soluble
:	Nuclease-Free Water -1.38	

Partition coefficient: n-octanol/water

water		Solut
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 Amplification	Not applicable.	
Mastermix		
2X Methyl Amplification	Not applicable.	
Mastermix		
Library Wash Buffer	Not applicable.	
Hyb Wash Buffer 1	Not applicable.	
Hyb Wash Buffer 2	Not applicable.	
Resuspension Buffer	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.	

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SECTION 9: Physical and chemical properties

Vapour pressure

Avida Index Primer Pairs Not applicable.

1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

: 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 mm Hg **kPa** Method mm kPa Method Ingredient name Hg **End Prep Buffer** water 17.5 2.3 92.258 12.3 **End Prep Enzyme** water 17.5 2.3 92.258 12.3 0.000075 0.00001 0.0025 0.00033 glycerol **Ligation Buffer** 17.5 2.3 92.258 12.3 water **Ligation Enzyme** water 17.5 2.3 92.258 12.3 0.000075 0.00001 0.0025 0.00033 glycerol Adapter for ILM 2.3 water 17.5 92.258 12.3 **Hyb Blocker** 17.5 2.3 92.258 12.3 water **Hyb Buffer** 17.5 2.3 92.258 12.3 water 0.00000001 0.00000000013 tetramethylammonium EU A.4 chloride **Hyb Enhancer** formamide 0.045 0.006 0.0000003 0.00000004 Poly(oxy-1,2-ethanediyl),αhydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated **Soft Conversion**

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SECTION 9: Physical and chemical properties

and chemical p	opert	163				
Reagent A					-	
tetrahydro-2-furyl- methanol	1.4	0.19	-	-	-	-
2X Amplification Mastermix						
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
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	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Reagent B						
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						

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SECTION 9: Physical and chemical properties

ana onomicai p						
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	-
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
Capture Beads						
water	17.5	2.3	-	92.258	12.3	-
Avida Index Primer Pairs 1-96 for ILM						
water	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 Amplification	Not available.
Mastermix	
2X Methyl Amplification	Not available.
Mastermix	
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion	Not available.

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SECTION 9: Physical and chemical properties

Relative density

Vapour density

al and chemical pro	operties
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 1-96 for ILM	s Not available.
Avida Index Primer Pairs 97-192 for ILM	s Not available.
: 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 2X Amplification	Not available.
Mastermix 2X Methyl Amplification Mastermix	Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion	Not available.
Reagent B	
Soft Conversion Binding Beads	
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	Not available.
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Avida Index Primer Pairs 1-96 for ILM	s Not available.
Avida Index Primer Pairs 97-192 for ILM	s 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 Amplification	Not available.
Mactarmiy	

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Mastermix

SECTION 9: Physical a

Explosive properties

and chemical properties								
2X Methyl Amplification	Not available.							
Mastermix								
Library Wash Buffer	Not available.							
Hyb Wash Buffer 1	Not available.							
Hyb Wash Buffer 2	Not available.							
Resuspension Buffer	Not available.							
Soft Conversion	Not available.							
Reagent B	riot available.							
Soft Conversion Binding	Not available.							
Beads	riot available.							
5X Soft Conversion	Not available.							
Wash Buffer	Not available.							
Soft Conversion Elution	Not available.							
Buffer	NOL available.							
	Not available.							
Soft Conversion Repair	NOL available.							
Solution	Niek erreitelete							
Library Binding Beads	Not available.							
Capture Beads	Not available.							
Avida Index Primer Pairs	Not available.							
1-96 for ILM								
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	Not available.							
2X Amplification	Not available.							
Mastermix	NOL available.							
2X Methyl Amplification	Not available.							
Mastermix	NUL avallable.							
	Not available							
Library Wash Buffer	Not available.							
Hyb Wash Buffer 1	Not available.							
Hyb Wash Buffer 2	Not available.							
Resuspension Buffer	Not available.							
Soft Conversion	Not available.							
Reagent B								
Soft Conversion Binding	Not available.							
Beads								
5X Soft Conversion	Not available.							
Wash Buffer								
O (1 O	K I . 4 !I . I . I .							

Soft Conversion Elution

Soft Conversion Repair

Library Binding Beads

Avida Index Primer Pairs Not available.

Avida Index Primer Pairs Not available.

Capture Beads

97-192 for ILM

1-96 for ILM

Buffer

Solution

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Not available.

Not available.

Not available.

Not available.

SECTION 9: Physical and chemical properties

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v	ΛІ	u	ıo		ч	v	ıv	v	◡	ıu	c	•

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 Amplification

Not available.

Mastermix

2X Methyl Amplification

Not available.

Mastermix

Library Wash Buffer

Not available.

Hyb Wash Buffer 1 Hvb Wash Buffer 2 Resuspension Buffer Soft Conversion

Not available. Not available. Not available. 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

Solution

Not available.

Library Binding Beads

Capture Beads

Not available.

Avida Index Primer Pairs

Not available.

1-96 for ILM

Not available.

Avida Index Primer Pairs

Not available.

Not applicable.

97-192 for ILM

Particle characteristics Median particle size

: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM

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

Hyb Buffer Hyb Enhancer

Hyb Blocker

Not applicable. Not applicable. Not applicable.

Soft Conversion

Reagent A 2X Amplification Not applicable.

Mastermix

2X Methyl Amplification

Not applicable.

Mastermix

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

Reagent B

Soft Conversion Binding

Not applicable.

Beads

5X Soft Conversion

Wash Buffer

Not applicable.

Soft Conversion Elution

Not applicable.

Buffer

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SECTION 9: Physical and chemical properties

Soft Conversion Repair

Solution

Not applicable.

Library Binding Beads Capture Beads

Not applicable. Not applicable.

Avida Index Primer Pairs Not applicable.

1-96 for ILM

Avida Index Primer Pairs Not applicable.

97-192 for ILM

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.

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

product or its ingredients.

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

product or its ingredients.

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

product or its ingredients.

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.

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

product or its ingredients.

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

Reagent A product or its ingredients.

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

product or its ingredients. Mastermix

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

product or its ingredients. Mastermix

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

product or its ingredients.

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

product or its ingredients.

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

product or its ingredients.

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

product or its ingredients.

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

product or its ingredients. Reagent B

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

product or its ingredients. Wash Buffer

1-96 for ILM

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

product or its ingredients. Buffer

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

Solution product or its ingredients.

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

product or its ingredients.

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

product or its ingredients.

Avida Index Primer Pairs No specific test data related to reactivity available for this

product or its ingredients.

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SECTION 10: Stability and reactivity

Avida Index Primer Pairs 97-192 for ILM

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 Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker The product is stable. Hyb Buffer The product is stable. Hyb Enhancer The product is stable. Soft Conversion The product is stable.

Reagent A

2X Amplification

Mastermix 2X Methyl Amplification

Mastermix

Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer 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

1-96 for ILM

Avida Index Primer Pairs The product is stable.

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.

The product is stable.

The product is stable.

The product is stable. The product is stable.

The product is stable.

10.3 Possibility of hazardous reactions

: Nuclease-Free Water Under normal conditions of storage and use, hazardous

reactions will not occur.

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

reactions will not occur.

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

reactions will not occur.

Ligation Buffer Under normal conditions of storage and use, hazardous reactions will not occur.

Ligation Enzyme Under normal conditions of storage and use, hazardous

reactions will not occur.

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

reactions will not occur.

Hyb Blocker Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Enhancer Under normal conditions of storage and use, hazardous

reactions will not occur.

Soft Conversion Under normal conditions of storage and use, hazardous

Reagent A reactions will not occur.

2X Amplification Under normal conditions of storage and use, hazardous Mastermix reactions will not occur.

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SECTION 10: Stability and reactivity

2X Methyl Amplification Under normal conditions of storage and use, hazardous reactions will not occur. Mastermix Library Wash Buffer Under normal conditions of storage and use, hazardous

reactions will not occur. Hyb Wash Buffer 1 Under normal conditions of storage and use, hazardous

reactions will not occur.

Hyb Wash Buffer 2 Under normal conditions of storage and use, hazardous reactions will not occur.

Resuspension Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

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 Beads reactions will not occur.

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

Wash Buffer reactions will not occur.

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

reactions will not occur. Buffer Soft Conversion Repair Under normal conditions of storage and use, hazardous

Solution 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

1-96 for ILM reactions will not occur.

Avida Index Primer Pairs Under normal conditions of storage and use, hazardous 97-192 for ILM

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. Hyb Blocker No specific data. Hyb Buffer No specific data. Hyb Enhancer No specific data. Soft Conversion No specific data. Reagent A

2X Amplification No specific data.

Mastermix 2X Methyl Amplification No specific data.

Mastermix

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

Reagent B Soft Conversion Binding

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

containers to heat or sources of ignition.

5X Soft Conversion No specific data. Wash Buffer

Soft Conversion Elution No specific data.

Buffer

Soft Conversion Repair No specific data.

Solution

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

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SECTION 10: Stability and reactivity

1-96 for ILM Avida Index Primer Pairs No specific data. 97-192 for ILM

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 Amplification Mastermix

2X Methyl Amplification Mastermix

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

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer Soft Conversion Elution

Buffer

Solution Library Binding Beads Capture Beads

Soft Conversion Repair

1-96 for ILM

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. 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. Avida Index Primer Pairs May react or be incompatible with oxidising materials.

Avida Index Primer Pairs 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

Soft Conversion Reagent A

Hyb Enhancer

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.

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SECTION 10: Stability and reactivity

2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

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

1-96 for ILM 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. 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 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 <u>Acute toxicity</u>

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

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SECTION 11: Toxicological information

2X Amplification Mastermix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Soft Conversion Binding				
Beads				
ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
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-				

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 tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	456.2 50 20600 500	2737.2 300 N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
Hyb Enhancer Formamide	5570	17000	N/A	N/A	N/A
2X Amplification Mastermix Glycerol	12600	N/A	N/A	N/A	N/A
Soft Conversion Binding Beads Soft Conversion Binding Beads ethanol salts of thiocyanic acid Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	2299.0 7000 593 500	5782.2 N/A 1100 N/A	N/A N/A N/A N/A	N/A 124.7 N/A N/A	16.7 N/A 3.181 N/A

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	

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SECTION 11: Toxicological information

	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	-
2X Amplification Mastermix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Soft Conversion Binding Beads					
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100	-
	Eyes - Moderate irritant	Rabbit	-	mg 100 uL	-
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	Eyes - Severe irritant	Rabbit	-	1 %	-
phenyl]omegahydroxy-					

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

SECTION 11: Toxicological information

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. Ligation Buffer Not available.

Ligation Enzyme Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Adapter for ILM Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Hyb Blocker Not available.

Hyb Buffer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Hyb Enhancer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Reagent A

Not available.

2X Amplification Not available.

Mastermix

2X Methyl Amplification

Solution

Mastermix
Library Wash Buffer Not available.

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

Soft Conversion Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Reagent B

Soft Conversion Binding Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Beads

5X Soft Conversion Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Wash Buffer

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

Soft Conversion Repair Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Library Binding Beads Not available.

Capture Beads Not available.

Avida Index Primer Pairs Not available. 1-96 for ILM

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

Potential acute health effects

Inhalation

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

Hyb Buffer Causes damage to organs following a single exposure if

inhaled.

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

Reagent A

2X Amplification

No known significant effects or critical hazards.

Mastermix

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

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

Reagent B
Soft Conversion Binding Corrosive to the respiratory tract. Causes burns.
Beads

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

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Ingestion

Skin contact

olo	ogical information	
	Wash Buffer	
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
:	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	Harmful if swallowed. Causes damage to organs following a
		single exposure if swallowed.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A	
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion Reagent B	No known significant effects or critical hazards.
	Soft Conversion Binding Beads	Corrosive to the digestive tract. Causes burns.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
	Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
:	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	Causes damage to organs following a single exposure in
	Llub Enhance	contact with skin. Causes skin irritation.
	Hyb Enhancer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent A	No known significant effects or critical bezords
	2X Amplification Mastermix	No known significant effects or critical hazards.
	2X Methyl Amplification	No known significant effects or critical hazards

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No known significant effects or critical hazards.

2X Methyl Amplification

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Eye contact

٠.,	gioai iiiioiiiiatioii	
	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.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B	
	Soft Conversion Binding	Causes severe burns.
	Beads	
	5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer	-
	Soft Conversion Elution	Causes severe burns.
	Buffer	
	Soft Conversion Repair	No known significant effects or critical hazards.
	Solution	C
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	1-96 for ILM	
	Avida Index Primer Pairs	No known significant effects or critical hazards.
	97-192 for ILM	
	Nuclease-Free Water	No known aignificant affects or critical bezorde
•		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	Causes serious eye irritation.
	Reagent A	No. 1
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	
	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.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion	Causes serious eye irritation.
	Reagent B	
	Soft Conversion Binding	Causes serious eye damage.
	Beads	
	5X Soft Conversion	No known significant effects or critical hazards.
	Wash Buffer	
	Soft Conversion Elution	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.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

1-96 for ILM

97-192 for ILM

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

SECTION 11: Toxicological information

: Muclease-Free Water No specific data. Inhalation 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

Adverse symptoms may include the following:

Reagent A

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

2X Amplification Mastermix

2X Methyl Amplification

No specific data.

Mastermix

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

Reagent B

Beads

Soft Conversion Binding

Adverse symptoms may include the following:

respiratory tract irritation coughing

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution

No specific data.

Buffer

Soft Conversion Repair

No specific data.

Solution

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

1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

Ingestion

: 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 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 Reagent A

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

2X Amplification

Mastermix

2X Methyl Amplification No specific data.

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Mastermix

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

Reagent B

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

Adverse symptoms may include the following:

stomach pains

5X Soft Conversion

Wash Buffer

No specific data.

Soft Conversion Elution Buffer

stomach pains No specific data.

Soft Conversion Repair Library Binding Beads

Solution

No specific data. No specific data.

Capture Beads Avida Index Primer Pairs No specific data.

1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

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. No specific data. Hyb Blocker

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

Reagent A

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

2X Amplification

Mastermix

No specific data.

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 Resuspension Buffer No specific data.

Reagent B

Soft Conversion

Soft Conversion Binding

Beads

Adverse symptoms may include the following:

pain or irritation

No specific data.

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

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blistering may occur 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.

1-96 for ILM

Avida Index Primer Pairs No specific data.

97-192 for ILM

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

Hyb Buffer Adverse symptoms may include the following:

> pain or irritation watering

redness

Hyb Enhancer No specific data.

Soft Conversion Adverse symptoms may include the following:

Reagent A

pain or irritation watering redness

2X Amplification No specific data.

Mastermix

2X Methyl Amplification No specific data.

Mastermix

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

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:

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.

1-96 for ILM

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**

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Potential immediate

effects

Potential delayed

effects

: Not available.

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

Not available.

Potential chronic health effects

Conclusion/Summary

: Not available.

General

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

May cause damage to organs through prolonged or repeated Hyb Enhancer

exposure.

Soft Conversion No known significant effects or critical hazards.

Reagent A

2X Amplification No known significant effects or critical hazards.

Mastermix

2X Methyl Amplification

Mastermix

No known significant effects or critical hazards.

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

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 known significant effects or critical hazards.

1-96 for ILM

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

97-192 for ILM

: Nuclease-Free Water

Carcinogenicity

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

Hyb Enhancer

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

Suspected of causing cancer. Risk of cancer depends on

duration and level of exposure.

Soft Conversion No known significant effects or critical hazards.

Reagent A

2X Amplification No known significant effects or critical hazards.

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Reagent B

Wash Buffer

5X Soft Conversion

Library Binding Beads

Capture Beads

1-96 for ILM

97-192 for ILM

Beads

Buffer

Solution

ogical information	
Mastermix 2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
Library Wash Buffer Hyb Wash Buffer 1	No known significant effects or critical hazards. No known significant effects or critical hazards.
Hyb Wash Buffer 2	No known significant effects or critical hazards.
Resuspension Buffer	No known significant effects or critical hazards.
Soft Conversion Reagent B	No known significant effects or critical hazards.
Soft Conversion Binding Beads	No known significant effects or critical hazards.
5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
Soft Conversion Elution Buffer	No known significant effects or critical hazards.
Soft Conversion Repair Solution	No known significant effects or critical hazards.
Library Binding Beads	No known significant effects or critical hazards.
Capture Beads	No known significant effects or critical hazards.
Avida Index Primer Pairs 1-96 for ILM	No known significant effects or critical hazards.
Avida Index Primer Pairs 97-192 for ILM	No known significant effects or critical hazards.
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 Reagent A	No known significant effects or critical hazards.
2X Amplification	No known significant effects or critical hazards.
Mastermix	THE KNOWN SIGNIFICANT CHESTS OF CHILDRIF NAZARAS.
2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
Library Wash Buffer	No known significant effects or critical hazards.
Hyb Wash Buffer 1	No known significant effects or critical hazards.
Hyb Wash Buffer 2	No known significant effects or critical hazards.
Resuspension Buffer	No known significant effects or critical hazards.
Soft Conversion	No known significant effects or critical hazards.

Mutagenicity

S. No known significant effects or critical hazards. No known significant effects or critical hazards. Soft Conversion Binding No known significant effects or critical hazards. Soft Conversion Elution 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. Avida Index Primer Pairs No known significant effects or critical hazards.

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

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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.
	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 damage fertility or the unborn child.
	Soft Conversion	May damage fertility. May damage the unborn child.
	Reagent A	
	2X Amplification	No known significant effects or critical hazards.
	Mastermix	No. 1
	2X Methyl Amplification Mastermix	No known significant effects or critical hazards.
	Library Wash Buffer	No known significant effects or critical hazards.
	Hyb Wash Buffer 1	No known significant effects or critical hazards.
	Hyb Wash Buffer 2	No known significant effects or critical hazards.
	Resuspension Buffer	No known significant effects or critical hazards.
	Soft Conversion	No known significant effects or critical hazards.
	Reagent B	
	Soft Conversion Binding Beads	No known significant effects or critical hazards.
	5X Soft Conversion Wash Buffer	No known significant effects or critical hazards.
	Soft Conversion Elution Buffer	No known significant effects or critical hazards.
	Soft Conversion Repair Solution	No known significant effects or critical hazards.
	Library Binding Beads	No known significant effects or critical hazards.
	Capture Beads	No known significant effects or critical hazards.
	Avida Index Primer Pairs	
	1-96 for ILM	ŭ
		No known significant effects or critical hazards.
	97-192 for ILM	
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 subspicatus	72 hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Calanoid copepod - <i>Eudiaptomus</i> padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lesser Duckweed - Lemna aequinoctialis	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> hyalina - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - common carp - Cyprinus	35 days

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End Prep Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
Ligation Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
Hyb Buffer tetramethylammonium chloride Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	Acute LC50 462 mg/l Fresh water Acute EC50 210 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas Algae - Green algae - Selenastrum sp.	96 hours
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water Acute LC50 2.518 mg/l Fresh water	Crustaceans - Aesop shrimp - Pandalus montagui - Adult Daphnia - Water flea - Daphnia	48 hours 48 hours
	Acute LC50 7200 μg/l Fresh water	magna Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
Hyb Enhancer Formamide	Acute EC50 >500 mg/l Fresh water Acute EC50 >500 mg/l Fresh water Acute LC50 6569 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water Acute NOEC 4640 mg/l Fresh water	Algae Daphnia Fish Algae Fish	72 hours 48 hours 96 hours 72 hours 96 hours
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	Acute EC50 >98.9 mg/l Acute EC50 >91.7 mg/l Acute LC50 >101 mg/l	Algae - Algae Daphnia - Daphnia - Daphnia magna Fish - Goldfish	72 hours 48 hours 96 hours
2X Amplification Mastermix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
Soft Conversion Binding Beads ethanol	Acute EC50 3306 mg/l Marine water	Algae - Green algae - <i>Ulva</i>	96 hours
	Acute EC50 1074 mg/l Fresh water	pertusa Crustaceans - Ostracod -	48 hours
	Acute EC50 2 mg/l Fresh water	Cypris subglobosa Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 11000000 μg/l Marine water	Fish - Bleak - <i>Alburnus alburnus</i>	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 - Daphnia magna - 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>	48 hours

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Acute LC50 7200 μg/l Fresh water

| Magna | Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss | 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	-	92 % - Readily - 28 days	-	-
2X Amplification				
Mastermix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Soft Conversion Binding Beads				
salts of thiocyanic acid	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-

Conclusion/Summary : Not available.

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			

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Beads			
ethanol	-	-	Readily
salts of thiocyanic acid	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water water	-1.38	-	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
Hyb Enhancer Formamide	-0.82	-	Low
Soft Conversion Reagent A tetrahydro-2-furyl-methanol	0.722	-	Low
2X Amplification Mastermix Glycerol	-1.76	-	Low
Soft Conversion Binding Beads ethanol	-0.35	0.5	Low
salts of thiocyanic acid Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	<-1.7 2.7	78.67	Low Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	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.

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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

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

Packaging

Methods of disposal

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

Special precautions

: 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

i 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.

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SECTION 14: Transport information

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

Product / Ingredient name	Identifiers	Status
End Prep Buffer		
End Prep Buffer		3
Hyb Buffer		
Hyb Buffer		3
Hyb Enhancer		
Hyb Enhancer		3
Formamide		30 30
Soft Conversion Reagent A		
Soft Conversion Reagent A		3
tetrahydro-2-furyl-methanol		30 30
2X Amplification Mastermix		

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Nonylphenol, ethoxylated	46a
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. Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Hyb Buffer Not applicable.

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

2X Amplification Mastermix Not applicable. 2X Methyl Amplification Not applicable.

Mastermix

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

Beads

5X Soft Conversion Wash Not applicable.

Buffer

Soft Conversion Elution Buffer Not applicable. Not applicable. Soft Conversion Repair

Solution

Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs 1-96 Not applicable. for ILM

Avida Index Primer Pairs

97-192 for ILM

Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

Category

Hyb Buffer

H3

Soft Conversion Binding Beads

P5c E1

EU regulations

Industrial emissions : Not listed (integrated pollution

prevention and control) -

Air

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Industrial emissions : Not listed (integrated pollution

prevention and control) -

Water

15.2 Chemical safety

assessment

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

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

acronyms

: ATE = Acute Toxicity Estimate

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

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

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	
Soft Conversion Reagent B		

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SECTION 16: Other information

Eye Irrit. 2, H319 Calculation method

Soft Conversion Binding Beads

Flam. Liq. 3, H226
Skin Corr. 1C, H314
Aquatic Acute 1, H400
Aquatic Chronic 2, H411
On basis of test data
Calculation method
Calculation method
Calculation method

Soft Conversion Elution Buffer

Skin Corr. 1, H314 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 Fatal if swallowed H302 Harmful if swallowed. H311 Toxic in contact with skin. Causes skin irritation. H315 Causes serious eye damage. H318 Causes serious eye irritation. H319 May cause respiratory irritation. H335 H370 Causes damage to organs. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Hyb Enhancer

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Soft

Conversion Reagent A

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

Soft

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.

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