

SAFETY DATA SHEET



SureSelect RNA Library Prep, ILM (Pre PCR), Part Number 5500-0134

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

1.1 Product identifier

Product name	: SureSelect RNA Library Prep, ILM (Pre PCR), Part Number 5500-0134
Part no. (chemical kit)	: 5500-0134
Part no.	: <input checked="" type="checkbox"/> Fragmentation Mix 5190-6366
	SureSelect Ligation Master Mix 5190-3802
	Second Strand Enzyme Mix 5190-7762
	dA Tailing Master Mix 5190-6369
	PCR Master Mix 5190-6371
	First Strand Master Mix 5190-6367
	Uracil DNA Glycosylase (UDG) 5190-6372
	SureSelect Oligo Adaptor Mix 5190-6370
	SureSelect Primer 5190-4933
	8bp Indexes A01-H02 Various*
	ILM Reverse PCR Primer 5190-6373
	ILM Post-Capture PCR Primer 5190-6374
	Second Strand Oligo Mix 5190-7763

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

Identified uses	: <input checked="" type="checkbox"/> Analytical reagent.
	<input checked="" type="checkbox"/> Fragmentation Mix 0.33 ml (16 reactions)
	SureSelect Ligation Master Mix 0.08 ml (16 reactions)
	Second Strand Enzyme Mix 0.4 ml (16 reactions)
	dA Tailing Master Mix 0.35 ml (16 reactions)
	PCR Master Mix 0.88 ml (16 reactions)
	First Strand Master Mix 0.14 ml (16 reactions)
	Uracil DNA Glycosylase (UDG) 0.02 ml (16 reactions)
	SureSelect Oligo Adaptor Mix 0.09 ml (16 reactions)
	SureSelect Primer 0.066 ml (16 reactions)
	8bp Indexes A01-H02 16 x 0.015 ml (2 reactions)
	ILM Reverse PCR Primer 0.018 ml (16 reactions)
	ILM Post-Capture PCR Primer 0.018 ml (16 reactions)
	Second Strand Oligo Mix 0.08 ml (16 reactions)
Uses advised against	: None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

Note * : *8bp Indexes A01-H02: 5190-7912, 5190-7913, 5190-7914, 5190-7915, 5190-7916, 5190-7917, 5190-7918, 5190-7919, 5190-7920, 5190-7921, 5190-7922, 5190-7923, 5190-7924, 5190-7925, 5190-7926, 5190-7927

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	Fragmentation Mix	Mixture
		SureSelect Ligation Master Mix	Mixture
		Second Strand Enzyme Mix	Mixture
		dA Tailing Master Mix	Mixture
		PCR Master Mix	Mixture
		First Strand Master Mix	Mixture
		Uracil DNA Glycosylase (UDG)	Mixture
		SureSelect Oligo Adaptor Mix	Mixture
		SureSelect Primer	Mixture
		8bp Indexes A01–H02	Mixture
		ILM Reverse PCR Primer	Mixture
		ILM Post-Capture PCR Primer	Mixture
		Second Strand Oligo Mix	Mixture

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

Not classified.

Fragmentation Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect Ligation Master Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Second Strand Enzyme Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
dA Tailing Master Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
PCR Master Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
First Strand Master Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Uracil DNA Glycosylase (UDG)	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect Oligo Adaptor Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
SureSelect Primer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
8bp Indexes A01–H02	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
ILM Reverse PCR Primer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
ILM Post-Capture PCR Primer	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
Second Strand Oligo Mix	The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity	:	SureSelect Ligation Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Second Strand Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		dA Tailing Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		PCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		First Strand Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		Uracil DNA Glycosylase (UDG)	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 inhalation toxicity: > 60%

SECTION 2: Hazards identification

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

Signal word

Fragmentation Mix	No signal word.
SureSelect Ligation Master Mix	No signal word.
Second Strand Enzyme Mix	No signal word.
dA Tailing Master Mix	No signal word.
PCR Master Mix	No signal word.
First Strand Master Mix	No signal word.
Uracil DNA Glycosylase (UDG)	No signal word.
SureSelect Oligo Adaptor Mix	No signal word.
SureSelect Primer	No signal word.
8bp Indexes A01–H02	No signal word.
ILM Reverse PCR Primer	No signal word.
ILM Post-Capture PCR Primer	No signal word.
Second Strand Oligo Mix	No signal word.

Hazard statements

Fragmentation Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix	No known significant effects or critical hazards.
Second Strand Enzyme Mix	No known significant effects or critical hazards.
dA Tailing Master Mix	No known significant effects or critical hazards.
PCR Master Mix	No known significant effects or critical hazards.
First Strand Master Mix	No known significant effects or critical hazards.
Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
SureSelect Primer	No known significant effects or critical hazards.
8bp Indexes A01–H02	No known significant effects or critical hazards.
ILM Reverse PCR Primer	No known significant effects or critical hazards.
ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
Second Strand Oligo Mix	No known significant effects or critical hazards.

Precautionary statements

Prevention

Fragmentation Mix	Not applicable.
SureSelect Ligation Master Mix	Not applicable.
Second Strand Enzyme Mix	Not applicable.
dA Tailing Master Mix	Not applicable.
PCR Master Mix	Not applicable.
First Strand Master Mix	Not applicable.
Uracil DNA Glycosylase (UDG)	Not applicable.
SureSelect Oligo Adaptor Mix	Not applicable.
SureSelect Primer	Not applicable.
8bp Indexes A01–H02	Not applicable.
ILM Reverse PCR Primer	Not applicable.
ILM Post-Capture PCR Primer	Not applicable.
Second Strand Oligo Mix	Not applicable.

SECTION 2: Hazards identification

Response	: <input checked="" type="checkbox"/> Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer 8bp Indexes A01–H02 ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: <input checked="" type="checkbox"/> Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer 8bp Indexes A01–H02 ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: <input checked="" type="checkbox"/> Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer 8bp Indexes A01–H02 ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: <input checked="" type="checkbox"/> Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase	Not applicable. Safety data sheet available on request. Safety data sheet available on request. Safety data sheet available on request. Safety data sheet available on request. Safety data sheet available on request. Safety data sheet available on request.

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	(UDG)	
	SureSelect Oligo	Not applicable.
	Adaptor Mix	
	SureSelect Primer	Not applicable.
	8bp Indexes A01–H02	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR	Not applicable.
	Primer	
	Second Strand Oligo Mix	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Fragmentation Mix	Not applicable.
	SureSelect Ligation	Not applicable.
	Master Mix	
	Second Strand Enzyme Mix	Not applicable.
	dA Tailing Master Mix	Not applicable.
	PCR Master Mix	Not applicable.
	First Strand Master Mix	Not applicable.
	Uracil DNA Glycosylase	Not applicable.
	(UDG)	
	SureSelect Oligo	Not applicable.
	Adaptor Mix	
	SureSelect Primer	Not applicable.
	8bp Indexes A01–H02	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR	Not applicable.
	Primer	
	Second Strand Oligo Mix	Not applicable.
Special packaging requirements		
Containers to be fitted with child-resistant fastenings	Fragmentation Mix	Not applicable.
	SureSelect Ligation	Not applicable.
	Master Mix	
	Second Strand Enzyme Mix	Not applicable.
	dA Tailing Master Mix	Not applicable.
	PCR Master Mix	Not applicable.
	First Strand Master Mix	Not applicable.
	Uracil DNA Glycosylase	Not applicable.
	(UDG)	
	SureSelect Oligo	Not applicable.
	Adaptor Mix	
	SureSelect Primer	Not applicable.
	8bp Indexes A01–H02	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR	Not applicable.
	Primer	
	Second Strand Oligo Mix	Not applicable.
Tactile warning of danger	Fragmentation Mix	Not applicable.
	SureSelect Ligation	Not applicable.
	Master Mix	
	Second Strand Enzyme Mix	Not applicable.
	dA Tailing Master Mix	Not applicable.
	PCR Master Mix	Not applicable.
	First Strand Master Mix	Not applicable.
	Uracil DNA Glycosylase	Not applicable.
	(UDG)	
	SureSelect Oligo	Not applicable.
	Adaptor Mix	
	SureSelect Primer	Not applicable.
	8bp Indexes A01–H02	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR	Not applicable.
	Primer	

SECTION 2: Hazards identification


Second Strand Oligo Mix Not applicable.

2.3 Other hazards

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


: 	Fragmentation Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Ligation Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Second Strand Enzyme Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	dA Tailing Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	PCR Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	First Strand Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Uracil DNA Glycosylase (UDG)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Oligo Adaptor Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	8bp Indexes A01–H02	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	ILM Reverse PCR Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	ILM Post-Capture PCR Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Second Strand Oligo Mix	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

: 	Fragmentation Mix	None known.
	SureSelect Ligation Master Mix	None known.
	Second Strand Enzyme Mix	None known.
	dA Tailing Master Mix	None known.
	PCR Master Mix	None known.
	First Strand Master Mix	None known.
	Uracil DNA Glycosylase (UDG)	None known.
	SureSelect Oligo Adaptor Mix	None known.
	SureSelect Primer	None known.
	8bp Indexes A01–H02	None known.
	ILM Reverse PCR Primer	None known.
	ILM Post-Capture PCR Primer	None known.
	Second Strand Oligo Mix	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

: 	Fragmentation Mix	Mixture
	SureSelect Ligation Master Mix	Mixture
	Second Strand Enzyme Mix	Mixture
	dA Tailing Master Mix	Mixture
	PCR Master Mix	Mixture
	First Strand Master Mix	Mixture
	Uracil DNA Glycosylase (UDG)	Mixture
	SureSelect Oligo Adaptor Mix	Mixture
	SureSelect Primer	Mixture
	8bp Indexes A01–H02	Mixture
	ILM Reverse PCR Primer	Mixture
	ILM Post-Capture PCR Primer	Mixture
	Second Strand Oligo Mix	Mixture

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
SureSelect Ligation Master Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥25 - ≤50	Not classified.	[1]
Second Strand Enzyme Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
dA Tailing Master Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
PCR Master Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	[1]
First Strand Master Mix Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
Uracil DNA Glycosylase (UDG) Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[1]

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

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

Type

- SureSelect Ligation Master Mix** [1] Substance with a workplace exposure limit
- Second Strand Enzyme Mix** [1] Substance with a workplace exposure limit
- dA Tailing Master Mix** [1] Substance with a workplace exposure limit
- PCR Master Mix** [1] Substance with a workplace exposure limit
- First Strand Master Mix** [1] Substance with a workplace exposure limit
- Uracil DNA Glycosylase (UDG)** [1] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Fragmentation Mix	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.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme	Immediately flush eyes with plenty of water, occasionally

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Mix	lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
dA Tailing Master Mix	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.
PCR Master Mix	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.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	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.
SureSelect Primer	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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.
ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation : Fragmentation Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Ligation Master Mix	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.
Second Strand Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
dA Tailing Master Mix	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.
PCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
First Strand Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Uracil DNA Glycosylase (UDG)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Oligo Adaptor Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
8bp Indexes A01–H02	Remove victim to fresh air and keep at rest in a position

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		comfortable for breathing. Get medical attention if symptoms occur.
	ILM Reverse PCR Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ILM Post-Capture PCR Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Second Strand Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:  Fragmentation Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Second Strand Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	dA Tailing Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	First Strand Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Uracil DNA Glycosylase (UDG)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Oligo Adaptor Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	8bp Indexes A01–H02	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ILM Reverse PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ILM Post-Capture PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Second Strand Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:  Fragmentation Mix	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.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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dA Tailing Master Mix	occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
PCR Master Mix	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.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	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.
SureSelect Primer	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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.
ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	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	:	Fragmentation Mix	No action shall be taken involving any personal risk or without suitable training.
		SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training.
		Second Strand Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
		dA Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training.
		PCR Master Mix	No action shall be taken involving any personal risk or without suitable training.
		First Strand Master Mix	No action shall be taken involving any personal risk or without suitable training.
		Uracil DNA Glycosylase	No action shall be taken involving any personal risk or without

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(UDG)	suitable training.
SureSelect Oligo	No action shall be taken involving any personal risk or without suitable training.
Adaptor Mix	suitable training.
SureSelect Primer	No action shall be taken involving any personal risk or without suitable training.
8bp Indexes A01–H02	No action shall be taken involving any personal risk or without suitable training.
ILM Reverse PCR Primer	No action shall be taken involving any personal risk or without suitable training.
ILM Post-Capture PCR Primer	No action shall be taken involving any personal risk or without suitable training.
Second Strand Oligo Mix	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	:	Fragmentation Mix	No specific data.
		SureSelect Ligation	No specific data.
		Master Mix	
		Second Strand Enzyme Mix	No specific data.
		dA Tailing Master Mix	No specific data.
		PCR Master Mix	No specific data.
		First Strand Master Mix	No specific data.
		Uracil DNA Glycosylase (UDG)	No specific data.
		SureSelect Oligo	No specific data.
		Adaptor Mix	
		SureSelect Primer	No specific data.
		8bp Indexes A01–H02	No specific data.
		ILM Reverse PCR Primer	No specific data.
		ILM Post-Capture PCR Primer	No specific data.
Inhalation	:	Fragmentation Mix	No specific data.
		SureSelect Ligation	No specific data.
		Master Mix	
		Second Strand Enzyme Mix	No specific data.
		dA Tailing Master Mix	No specific data.
		PCR Master Mix	No specific data.
		First Strand Master Mix	No specific data.
		Uracil DNA Glycosylase (UDG)	No specific data.
		SureSelect Oligo	No specific data.
		Adaptor Mix	
		SureSelect Primer	No specific data.
		8bp Indexes A01–H02	No specific data.
		ILM Reverse PCR Primer	No specific data.
		ILM Post-Capture PCR Primer	No specific data.
Skin contact	:	Fragmentation Mix	No specific data.
		SureSelect Ligation	No specific data.
		Master Mix	
		Second Strand Enzyme Mix	No specific data.
		dA Tailing Master Mix	No specific data.
		PCR Master Mix	No specific data.
		First Strand Master Mix	No specific data.
		Uracil DNA Glycosylase (UDG)	No specific data.
		SureSelect Oligo	No specific data.

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	Adaptor Mix	
	SureSelect Primer	No specific data.
	8bp Indexes A01–H02	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
Ingestion	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	8bp Indexes A01–H02	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Fragmentation Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	dA Tailing Master Mix	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.
	PCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	First Strand Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Uracil DNA Glycosylase (UDG)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Oligo Adaptor Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	8bp Indexes A01–H02	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ILM Reverse PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ILM Post-Capture PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Second Strand Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Fragmentation Mix	No specific treatment.
	SureSelect Ligation Master Mix	No specific treatment.
	Second Strand Enzyme Mix	No specific treatment.
	dA Tailing Master Mix	No specific treatment.
	PCR Master Mix	No specific treatment.
	First Strand Master Mix	No specific treatment.

SECTION 4: First aid measures

Uracil DNA Glycosylase (UDG)	No specific treatment.
SureSelect Oligo Adaptor Mix	No specific treatment.
SureSelect Primer	No specific treatment.
8bp Indexes A01–H02	No specific treatment.
ILM Reverse PCR Primer	No specific treatment.
ILM Post-Capture PCR Primer	No specific treatment.
Second Strand Oligo Mix	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Fragmentation Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Ligation Master Mix	Use an extinguishing agent suitable for the surrounding fire.
Second Strand Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
dA Tailing Master Mix	Use an extinguishing agent suitable for the surrounding fire.
PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
First Strand Master Mix	Use an extinguishing agent suitable for the surrounding fire.
Uracil DNA Glycosylase (UDG)	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Oligo Adaptor Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Primer	Use an extinguishing agent suitable for the surrounding fire.
8bp Indexes A01–H02	Use an extinguishing agent suitable for the surrounding fire.
ILM Reverse PCR Primer	Use an extinguishing agent suitable for the surrounding fire.
ILM Post-Capture PCR Primer	Use an extinguishing agent suitable for the surrounding fire.
Second Strand Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

Fragmentation Mix	None known.
SureSelect Ligation Master Mix	None known.
Second Strand Enzyme Mix	None known.
dA Tailing Master Mix	None known.
PCR Master Mix	None known.
First Strand Master Mix	None known.
Uracil DNA Glycosylase (UDG)	None known.
SureSelect Oligo Adaptor Mix	None known.
SureSelect Primer	None known.
8bp Indexes A01–H02	None known.
ILM Reverse PCR Primer	None known.
ILM Post-Capture PCR Primer	None known.
Second Strand Oligo Mix	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

Fragmentation Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Ligation Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Second Strand Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
dA Tailing Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
PCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
First Strand Master Mix	In a fire or if heated, a pressure increase will occur and the

SECTION 5: Firefighting measures


	Uracil DNA Glycosylase (UDG)	container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Oligo Adaptor Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	8bp Indexes A01–H02	In a fire or if heated, a pressure increase will occur and the container may burst.
	ILM Reverse PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	ILM Post-Capture PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Second Strand Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	Second Strand Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	dA Tailing Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	PCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	First Strand Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Uracil DNA Glycosylase (UDG)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	8bp Indexes A01–H02	No specific data.
ILM Reverse PCR Primer	No specific data.	
ILM Post-Capture PCR Primer	No specific data.	
Second Strand Oligo Mix	No specific data.	

5.3 Advice for firefighters

Special protective actions for fire-fighters	Fragmentation Mix	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.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	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.
	dA Tailing Master Mix	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.

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

PCR Master Mix	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.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	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.
SureSelect Primer	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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.
ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	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.
:  Fragmentation Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Ligation Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Second Strand Enzyme Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
dA Tailing Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
PCR Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
First Strand Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Uracil DNA Glycosylase (UDG)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Oligo Adaptor Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
8bp Indexes A01–H02	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
ILM Reverse PCR Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
ILM Post-Capture PCR	Fire-fighters should wear appropriate protective equipment

SECTION 5: Firefighting measures

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

: Fragmentation Mix	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.
SureSelect Ligation Master Mix	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.
Second Strand Enzyme Mix	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.
dA Tailing Master Mix	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.
PCR Master Mix	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.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	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.
SureSelect Primer	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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

For emergency responders

ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	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.
:  Fragmentation Mix	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".
SureSelect Ligation Master Mix	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".
Second Strand Enzyme Mix	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".
dA Tailing Master Mix	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".
PCR Master Mix	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".
First Strand Master Mix	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".
Uracil DNA Glycosylase (UDG)	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".
SureSelect Oligo Adaptor Mix	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".
SureSelect Primer	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".
8bp Indexes A01–H02	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".
ILM Reverse PCR Primer	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".
ILM Post-Capture PCR Primer	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".
Second Strand Oligo Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".


SECTION 6: Accidental release measures

6.2 Environmental precautions

:  Fragmentation Mix	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).
SureSelect Ligation Master Mix	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).
Second Strand Enzyme Mix	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).
dA Tailing Master Mix	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).
PCR Master Mix	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).
First Strand Master Mix	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).
Uracil DNA Glycosylase (UDG)	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).
SureSelect Oligo Adaptor Mix	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).
SureSelect Primer	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).
8bp Indexes A01–H02	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).
ILM Reverse PCR Primer	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).
ILM Post-Capture PCR Primer	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).
Second Strand Oligo Mix	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

:  Fragmentation Mix	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.
SureSelect Ligation Master Mix	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

SECTION 6: Accidental release measures


Second Strand Enzyme Mix	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
dA Tailing Master Mix	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.
PCR Master Mix	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.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	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.
SureSelect Primer	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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.
ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Fragmentation Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Ligation Master Mix	Put on appropriate personal protective equipment (see Section 8).
	Second Strand Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
	dA Tailing Master Mix	Put on appropriate personal protective equipment (see Section 8).
	PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	First Strand Master Mix	Put on appropriate personal protective equipment (see Section 8).
	Uracil DNA Glycosylase (UDG)	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Oligo Adaptor Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Primer	Put on appropriate personal protective equipment (see Section 8).
	8bp Indexes A01–H02	Put on appropriate personal protective equipment (see Section 8).
	ILM Reverse PCR Primer	Put on appropriate personal protective equipment (see Section 8).
	ILM Post-Capture PCR Primer	Put on appropriate personal protective equipment (see Section 8).
	Second Strand Oligo Mix	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:  Fragmentation Mix	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.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	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.
	dA Tailing Master Mix	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.
	PCR Master Mix	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.
	First Strand Master Mix	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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Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	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.
SureSelect Primer	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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.
ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	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	: Fragmentation Mix	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.
	SureSelect Ligation Master Mix	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

SECTION 7: Handling and storage

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

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	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.
8bp Indexes A01–H02	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.
ILM Reverse PCR Primer	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.
ILM Post-Capture PCR Primer	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.
Second Strand Oligo Mix	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.

7.3 Specific end use(s)

Recommendations

Fragmentation Mix	Industrial applications, Professional applications.
SureSelect Ligation Master Mix	Industrial applications, Professional applications.
Second Strand Enzyme Mix	Industrial applications, Professional applications.
dA Tailing Master Mix	Industrial applications, Professional applications.
PCR Master Mix	Industrial applications, Professional applications.
First Strand Master Mix	Industrial applications, Professional applications.
Uracil DNA Glycosylase (UDG)	Industrial applications, Professional applications.
SureSelect Oligo Adaptor Mix	Industrial applications, Professional applications.
SureSelect Primer	Industrial applications, Professional applications.


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	8bp Indexes A01–H02	Industrial applications, Professional applications.
	ILM Reverse PCR Primer	Industrial applications, Professional applications.
	ILM Post-Capture PCR Primer	Industrial applications, Professional applications.
	Second Strand Oligo Mix	Industrial applications, Professional applications.
Industrial sector specific solutions	Fragmentation Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	Second Strand Enzyme Mix	Not available.
	dA Tailing Master Mix	Not available.
	PCR Master Mix	Not available.
	First Strand Master Mix	Not available.
	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo Adaptor Mix	Not available.
	SureSelect Primer	Not available.
	8bp Indexes A01–H02	Not available.
	ILM Reverse PCR Primer	Not available.
	ILM Post-Capture PCR Primer	Not available.
	Second Strand Oligo Mix	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters


Occupational exposure limits

Product/ingredient name	Exposure limit values
 SureSelect Ligation Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
Second Strand Enzyme Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
dA Tailing Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
PCR Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
First Strand Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
Uracil DNA Glycosylase (UDG) Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

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

No DNELs/DMELs available.

SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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 side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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	:	Fragmentation Mix	Liquid.
		SureSelect Ligation	Liquid.
		Master Mix	
		Second Strand Enzyme	Liquid.
		Mix	
		dA Tailing Master Mix	Liquid.
		PCR Master Mix	Liquid.
		First Strand Master Mix	Liquid.
		Uracil DNA Glycosylase (UDG)	Liquid.
		SureSelect Oligo	Liquid.
		Adaptor Mix	
		SureSelect Primer	Liquid.
		8bp Indexes A01–H02	Liquid.
		ILM Reverse PCR Primer	Liquid.
		ILM Post-Capture PCR Primer	Liquid.

SECTION 9: Physical and chemical properties

		Second Strand Oligo Mix	Liquid.
Colour	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		8bp Indexes A01–H02	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
Odour	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		8bp Indexes A01–H02	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
Odour threshold	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		8bp Indexes A01–H02	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
Melting point/freezing point	:	Fragmentation Mix	0°C
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.

SECTION 9: Physical and chemical properties

	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo	0°C
	Adaptor Mix	
	SureSelect Primer	0°C
	8bp Indexes A01–H02	0°C
	ILM Reverse PCR Primer	0°C
	ILM Post-Capture PCR Primer	0°C
	Second Strand Oligo Mix	0°C
Initial boiling point and boiling range	: Fragmentation Mix	100°C
	SureSelect Ligation Master Mix	Not available.
	Second Strand Enzyme Mix	Not available.
	dA Tailing Master Mix	Not available.
	PCR Master Mix	Not available.
	First Strand Master Mix	Not available.
	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo	100°C
	Adaptor Mix	
	SureSelect Primer	100°C
	8bp Indexes A01–H02	100°C
	ILM Reverse PCR Primer	100°C
	ILM Post-Capture PCR Primer	100°C
	Second Strand Oligo Mix	100°C
Flammability	: Fragmentation Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	Second Strand Enzyme Mix	Not applicable.
	dA Tailing Master Mix	Not applicable.
	PCR Master Mix	Not applicable.
	First Strand Master Mix	Not applicable.
	Uracil DNA Glycosylase (UDG)	Not applicable.
	SureSelect Oligo	Not applicable.
	Adaptor Mix	
	SureSelect Primer	Not applicable.
	8bp Indexes A01–H02	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR Primer	Not applicable.
	Second Strand Oligo Mix	Not applicable.
Upper/lower flammability or explosive limits	: Fragmentation Mix	Not available.
	SureSelect Ligation Master Mix	Not available.
	Second Strand Enzyme Mix	Not available.
	dA Tailing Master Mix	Not available.
	PCR Master Mix	Not available.
	First Strand Master Mix	Not available.
	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo	Not available.
	Adaptor Mix	
	SureSelect Primer	Not available.
	8bp Indexes A01–H02	Not available.
	ILM Reverse PCR Primer	Not available.
	ILM Post-Capture PCR Primer	Not available.
	Primer	

SECTION 9: Physical and chemical properties

Second Strand Oligo Mix Not available.

Flash point

:

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
SureSelect Ligation Master Mix				
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
glycerol	-	-	177	-
Second Strand Enzyme Mix				
glycerol	-	-	177	-
dA Tailing Master Mix				
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-
glycerol	-	-	177	-
PCR Master Mix				
glycerol	-	-	177	-
First Strand Master Mix				
glycerol	-	-	177	-
Uracil DNA Glycosylase (UDG)				
glycerol	-	-	177	-

Auto-ignition temperature

:

Ingredient name	°C	Method
SureSelect Ligation Master Mix		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
glycerol	370	-
Second Strand Enzyme Mix		
glycerol	370	-
dA Tailing Master Mix		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-
glycerol	370	-
PCR Master Mix		
glycerol	370	-

SECTION 9: Physical and chemical properties

First Strand Master Mix		
glycerol	370	-
Uracil DNA Glycosylase (UDG)		
glycerol	370	-

Decomposition temperature :

- Fragmentation Mix Not available.
- SureSelect Ligation Master Mix Not available.
- Second Strand Enzyme Mix Not available.
- dA Tailing Master Mix Not available.
- PCR Master Mix Not available.
- First Strand Master Mix Not available.
- Uracil DNA Glycosylase (UDG) Not available.
- SureSelect Oligo Adaptor Mix Not available.
- SureSelect Primer 8bp Indexes A01–H02 Not available.
- ILM Reverse PCR Primer Not available.
- ILM Post-Capture PCR Primer Not available.
- Second Strand Oligo Mix Not available.

pH :

- Fragmentation Mix 8.3
- SureSelect Ligation Master Mix 7.5
- Second Strand Enzyme Mix 8.3
- dA Tailing Master Mix 7.5
- PCR Master Mix 8.8
- First Strand Master Mix 8.3
- Uracil DNA Glycosylase (UDG) Not available.
- SureSelect Oligo Adaptor Mix Not available.
- SureSelect Primer 7.5
- 8bp Indexes A01–H02 7
- ILM Reverse PCR Primer 7
- ILM Post-Capture PCR Primer 7
- Second Strand Oligo Mix 7.5

Viscosity :

- Fragmentation Mix Not available.
- SureSelect Ligation Master Mix Not available.
- Second Strand Enzyme Mix Not available.
- dA Tailing Master Mix Not available.
- PCR Master Mix Not available.
- First Strand Master Mix Not available.
- Uracil DNA Glycosylase (UDG) Not available.
- SureSelect Oligo Adaptor Mix Not available.
- SureSelect Primer 8bp Indexes A01–H02 Not available.
- ILM Reverse PCR Primer Not available.
- ILM Post-Capture PCR Primer Not available.
- Second Strand Oligo Mix Not available.

SECTION 9: Physical and chemical properties

Solubility(ies)	Media	Result
	Fragmentation Mix water	Soluble
	SureSelect Ligation Master Mix water	Soluble
	Second Strand Enzyme Mix water	Soluble
	dA Tailing Master Mix water	Soluble
	PCR Master Mix water	Soluble
	First Strand Master Mix water	Soluble
	Uracil DNA Glycosylase (UDG) water	Soluble
	SureSelect Oligo Adaptor Mix water	Soluble
	SureSelect Primer water	Soluble
	8bp Indexes A01–H02 water	Soluble
	ILM Reverse PCR Primer water	Soluble
	ILM Post-Capture PCR Primer water	Soluble
	Second Strand Oligo Mix water	Soluble

Partition coefficient: n-octanol/water	Media	Result
	Fragmentation Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	Second Strand Enzyme Mix	Not applicable.
	dA Tailing Master Mix	Not applicable.
	PCR Master Mix	Not applicable.
	First Strand Master Mix	Not applicable.
	Uracil DNA Glycosylase (UDG)	Not applicable.
	SureSelect Oligo Adaptor Mix	Not applicable.
	SureSelect Primer	Not applicable.
	8bp Indexes A01–H02	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR Primer	Not applicable.
	Second Strand Oligo Mix	Not applicable.

Vapour pressure	Ingredient name	Vapour Pressure at 20° C			Vapour pressure at 50° C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	Fragmentation Mix water	17.5	2.3	-	92.258	12.3	-
	SureSelect Ligation Master Mix water	17.5	2.3	-	92.258	12.3	-
	glycerol	0.000075	0.00001	-	0.0025	0.00033	-

SECTION 9: Physical and chemical properties

Second Strand Enzyme Mix							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
dA Tailing Master Mix							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
PCR Master Mix							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
First Strand Master Mix							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
Uracil DNA Glycosylase (UDG)							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
SureSelect Oligo Adaptor Mix							
water	17.5	2.3	-	92.258	12.3	-	
SureSelect Primer							
water	17.5	2.3	-	92.258	12.3	-	
8bp Indexes A01-H02							
water	17.5	2.3	-	92.258	12.3	-	
ILM Reverse PCR Primer							
water	17.5	2.3	-	92.258	12.3	-	
ILM Post-Capture PCR Primer							

SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
Second Strand Oligo Mix						
water	17.5	2.3	-	92.258	12.3	-

Evaporation rate

- : Fragmentation Mix Not available.
- SureSelect Ligation Master Mix Not available.
- Second Strand Enzyme Mix Not available.
- dA Tailing Master Mix Not available.
- PCR Master Mix Not available.
- First Strand Master Mix Not available.
- Uracil DNA Glycosylase (UDG) Not available.
- SureSelect Oligo Adaptor Mix Not available.
- SureSelect Primer 8bp Indexes A01–H02 Not available.
- ILM Reverse PCR Primer Not available.
- ILM Post-Capture PCR Primer Not available.
- Second Strand Oligo Mix Not available.

Relative density

- : Fragmentation Mix Not available.
- SureSelect Ligation Master Mix Not available.
- Second Strand Enzyme Mix Not available.
- dA Tailing Master Mix Not available.
- PCR Master Mix Not available.
- First Strand Master Mix Not available.
- Uracil DNA Glycosylase (UDG) Not available.
- SureSelect Oligo Adaptor Mix Not available.
- SureSelect Primer 8bp Indexes A01–H02 Not available.
- ILM Reverse PCR Primer Not available.
- ILM Post-Capture PCR Primer Not available.
- Second Strand Oligo Mix Not available.

Vapour density

- : Fragmentation Mix Not available.
- SureSelect Ligation Master Mix Not available.
- Second Strand Enzyme Mix Not available.
- dA Tailing Master Mix Not available.
- PCR Master Mix Not available.
- First Strand Master Mix Not available.
- Uracil DNA Glycosylase (UDG) Not available.
- SureSelect Oligo Adaptor Mix Not available.
- SureSelect Primer 8bp Indexes A01–H02 Not available.
- ILM Reverse PCR Primer Not available.
- ILM Post-Capture PCR Primer Not available.
- Second Strand Oligo Mix Not available.


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Explosive properties	:	Fragmentation Mix	Not available.		
		SureSelect Ligation Master Mix	Not available.		
		Second Strand Enzyme Mix	Not available.		
		dA Tailing Master Mix	Not available.		
		PCR Master Mix	Not available.		
		First Strand Master Mix	Not available.		
		Uracil DNA Glycosylase (UDG)	Not available.		
		SureSelect Oligo Adaptor Mix	Not available.		
		SureSelect Primer	Not available.		
		8bp Indexes A01–H02	Not available.		
		ILM Reverse PCR Primer	Not available.		
		ILM Post-Capture PCR Primer	Not available.		
		Second Strand Oligo Mix	Not available.		
	Oxidising properties	:	Fragmentation Mix	Not available.	
			SureSelect Ligation Master Mix	Not available.	
		Second Strand Enzyme Mix	Not available.		
		dA Tailing Master Mix	Not available.		
		PCR Master Mix	Not available.		
		First Strand Master Mix	Not available.		
		Uracil DNA Glycosylase (UDG)	Not available.		
		SureSelect Oligo Adaptor Mix	Not available.		
		SureSelect Primer	Not available.		
		8bp Indexes A01–H02	Not available.		
		ILM Reverse PCR Primer	Not available.		
		ILM Post-Capture PCR Primer	Not available.		
		Second Strand Oligo Mix	Not available.		
Particle characteristics		Median particle size	:	Fragmentation Mix	Not applicable.
				SureSelect Ligation Master Mix	Not applicable.
			Second Strand Enzyme Mix	Not applicable.	
			dA Tailing Master Mix	Not applicable.	
			PCR Master Mix	Not applicable.	
			First Strand Master Mix	Not applicable.	
			Uracil DNA Glycosylase (UDG)	Not applicable.	
			SureSelect Oligo Adaptor Mix	Not applicable.	
			SureSelect Primer	Not applicable.	
			8bp Indexes A01–H02	Not applicable.	
			ILM Reverse PCR Primer	Not applicable.	
			ILM Post-Capture PCR Primer	Not applicable.	
			Second Strand Oligo Mix	Not applicable.	


9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:  Fragmentation Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Ligation Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	Second Strand Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
	dA Tailing Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	PCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	First Strand Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	Uracil DNA Glycosylase (UDG)	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Oligo Adaptor Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Primer	No specific test data related to reactivity available for this product or its ingredients.
	8bp Indexes A01–H02	No specific test data related to reactivity available for this product or its ingredients.
	ILM Reverse PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
	ILM Post-Capture PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
	Second Strand Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability	:  Fragmentation Mix	The product is stable.
	SureSelect Ligation Master Mix	The product is stable.
	Second Strand Enzyme Mix	The product is stable.
	dA Tailing Master Mix	The product is stable.
	PCR Master Mix	The product is stable.
	First Strand Master Mix	The product is stable.
	Uracil DNA Glycosylase (UDG)	The product is stable.
	SureSelect Oligo Adaptor Mix	The product is stable.
	SureSelect Primer	The product is stable.
	8bp Indexes A01–H02	The product is stable.
	ILM Reverse PCR Primer	The product is stable.
	ILM Post-Capture PCR Primer	The product is stable.
	Second Strand Oligo Mix	The product is stable.

10.3 Possibility of hazardous reactions	:  Fragmentation Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Second Strand Enzyme Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	dA Tailing Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	PCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	First Strand Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Uracil DNA Glycosylase (UDG)	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Oligo Adaptor Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Primer	Under normal conditions of storage and use, hazardous

SECTION 10: Stability and reactivity

8bp Indexes A01–H02	reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
ILM Reverse PCR Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
ILM Post-Capture PCR Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
Second Strand Oligo Mix	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid :

Fragmentation Mix	No specific data.
SureSelect Ligation Master Mix	No specific data.
Second Strand Enzyme Mix	No specific data.
dA Tailing Master Mix	No specific data.
PCR Master Mix	No specific data.
First Strand Master Mix	No specific data.
Uracil DNA Glycosylase (UDG)	No specific data.
SureSelect Oligo Adaptor Mix	No specific data.
SureSelect Primer	No specific data.
8bp Indexes A01–H02	No specific data.
ILM Reverse PCR Primer	No specific data.
ILM Post-Capture PCR Primer	No specific data.
Second Strand Oligo Mix	No specific data.

10.5 Incompatible materials :

Fragmentation Mix	May react or be incompatible with oxidising materials.
SureSelect Ligation Master Mix	May react or be incompatible with oxidising materials.
Second Strand Enzyme Mix	May react or be incompatible with oxidising materials.
dA Tailing Master Mix	May react or be incompatible with oxidising materials.
PCR Master Mix	May react or be incompatible with oxidising materials.
First Strand Master Mix	May react or be incompatible with oxidising materials.
Uracil DNA Glycosylase (UDG)	May react or be incompatible with oxidising materials.
SureSelect Oligo Adaptor Mix	May react or be incompatible with oxidising materials.
SureSelect Primer	May react or be incompatible with oxidising materials.
8bp Indexes A01–H02	May react or be incompatible with oxidising materials.
ILM Reverse PCR Primer	May react or be incompatible with oxidising materials.
ILM Post-Capture PCR Primer	May react or be incompatible with oxidising materials.
Second Strand Oligo Mix	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products :

Fragmentation Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Second Strand Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
dA Tailing Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
PCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
First Strand Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Uracil DNA Glycosylase (UDG)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.


SECTION 10: Stability and reactivity

SureSelect Oligo	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Adaptor Mix	
SureSelect Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
8bp Indexes A01–H02	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
ILM Reverse PCR Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
ILM Post-Capture PCR Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Second Strand Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.


SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
 SureSelect Ligation Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Second Strand Enzyme Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
dA Tailing Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
PCR Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
First Strand Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Uracil DNA Glycosylase (UDG) Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
 SureSelect Ligation Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
Second Strand Enzyme Mix Glycerol	12600	N/A	N/A	N/A	N/A
dA Tailing Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
PCR Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
First Strand Master Mix Glycerol	12600	N/A	N/A	N/A	N/A
Uracil DNA Glycosylase (UDG) Glycerol	12600	N/A	N/A	N/A	N/A

SECTION 11: Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Ligation Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Second Strand Enzyme Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
dA Tailing Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
PCR Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
First Strand Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Uracil DNA Glycosylase (UDG) Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary : Not available.

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)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on likely routes of exposure	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		Second Strand Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		dA Tailing Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		PCR Master Mix	Not available.
		First Strand Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		Uracil DNA Glycosylase (UDG)	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		8bp Indexes A01–H02	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.

Potential acute health effects

Inhalation	:	Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		8bp Indexes A01–H02	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
		Second Strand Oligo Mix	No known significant effects or critical hazards.
Ingestion	:	Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		8bp Indexes A01–H02	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
		Second Strand Oligo Mix	No known significant effects or critical hazards.
Skin contact	:	Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
	SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
	SureSelect Primer	No known significant effects or critical hazards.
	8bp Indexes A01–H02	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
	Second Strand Oligo Mix	No known significant effects or critical hazards.
Eye contact	: Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	Second Strand Enzyme Mix	No known significant effects or critical hazards.
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
	SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
	SureSelect Primer	No known significant effects or critical hazards.
	8bp Indexes A01–H02	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
	Second Strand Oligo Mix	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	8bp Indexes A01–H02	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
Ingestion	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	8bp Indexes A01–H02	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR	No specific data.

SECTION 11: Toxicological information

	Primer	
	Second Strand Oligo Mix	No specific data.
Skin contact	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	8bp Indexes A01-H02	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
Eye contact	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	8bp Indexes A01-H02	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General	: Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	Second Strand Enzyme Mix	No known significant effects or critical hazards.
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	(UDG)	
	SureSelect Oligo	No known significant effects or critical hazards.
	Adaptor Mix	
	SureSelect Primer	No known significant effects or critical hazards.
	8bp Indexes A01–H02	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR	No known significant effects or critical hazards.
	Primer	
	Second Strand Oligo Mix	No known significant effects or critical hazards.
Carcinogenicity	:  Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation	No known significant effects or critical hazards.
	Master Mix	
	Second Strand Enzyme	No known significant effects or critical hazards.
	Mix	
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase	No known significant effects or critical hazards.
	(UDG)	
	SureSelect Oligo	No known significant effects or critical hazards.
	Adaptor Mix	
	SureSelect Primer	No known significant effects or critical hazards.
	8bp Indexes A01–H02	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR	No known significant effects or critical hazards.
	Primer	
	Second Strand Oligo Mix	No known significant effects or critical hazards.
Mutagenicity	:  Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation	No known significant effects or critical hazards.
	Master Mix	
	Second Strand Enzyme	No known significant effects or critical hazards.
	Mix	
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase	No known significant effects or critical hazards.
	(UDG)	
	SureSelect Oligo	No known significant effects or critical hazards.
	Adaptor Mix	
	SureSelect Primer	No known significant effects or critical hazards.
	8bp Indexes A01–H02	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR	No known significant effects or critical hazards.
	Primer	
	Second Strand Oligo Mix	No known significant effects or critical hazards.
Reproductive toxicity	:  Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation	No known significant effects or critical hazards.
	Master Mix	
	Second Strand Enzyme	No known significant effects or critical hazards.
	Mix	
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase	No known significant effects or critical hazards.
	(UDG)	
	SureSelect Oligo	No known significant effects or critical hazards.
	Adaptor Mix	
	SureSelect Primer	No known significant effects or critical hazards.
	8bp Indexes A01–H02	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR	No known significant effects or critical hazards.
	Primer	
	Second Strand Oligo Mix	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> SureSelect Ligation Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
Second Strand Enzyme Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
dA Tailing Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
PCR Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
First Strand Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
Uracil DNA Glycosylase (UDG) Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> SureSelect Ligation Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Second Strand Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
dA Tailing Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
PCR Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
First Strand Master Mix Glycerol	301D Ready	93 % - 30 days	-	-

SECTION 12: Ecological information

Uracil DNA Glycosylase (UDG) Glycerol	Biodegradability - Closed Bottle Test			
	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect Ligation Master Mix Glycerol	-1.76	-	Low
Second Strand Enzyme Mix Glycerol	-1.76	-	Low
dA Tailing Master Mix Glycerol	-1.76	-	Low
PCR Master Mix Glycerol	-1.76	-	Low
First Strand Master Mix Glycerol	-1.76	-	Low
Uracil DNA Glycosylase (UDG) Glycerol	-1.76	-	Low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

SECTION 13: Disposal considerations

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 : This material and its container must be disposed of in a safe way. 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	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

SECTION 15: Regulatory information

No listed substance

Label	:	Fragmentation Mix	Not applicable.
		SureSelect Ligation Master Mix	Not applicable.
		Second Strand Enzyme Mix	Not applicable.
		dA Tailing Master Mix	Not applicable.
		PCR Master Mix	Not applicable.
		First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		8bp Indexes A01–H02	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
		Second Strand Oligo Mix	Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

SECTION 16: Other information

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

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Note * : *8bp Indexes A01–H02: 5190-7912, 5190-7913, 5190-7914, 5190-7915, 5190-7916, 5190-7917, 5190-7918, 5190-7919, 5190-7920, 5190-7921, 5190-7922, 5190-7923, 5190-7924, 5190-7925, 5190-7926, 5190-7927

Notice to reader

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