

SAFETY DATA SHEET

SureSelect Strand-Specific RNA Library Prep Kit Box 1-ILM-16 Samples, Part Number 5500-0116

Section 1. Identification

Product identifier	:	SureSelect Strand-Specific RNA Library Prep Kit Box 1-ILM-16 Samples, Part Number 5500-0116	
Part no. (chemical kit)	:	5500-0116	
Part no.	:	SureSelect Ligation Master Mix	5190-3802
		RNA Seq Fragmentation Mix	5190-6366
		RNA Seq Second Strand + End Repair Enzyme Mix	5190-7762
		RNA Seq dA Tailing Master Mix	5190-6369
		RNA Seq PCR Master Mix	5190-6371
		RNA Seq First Strand Master Mix	5190-6367
		Uracil DNA Glycosylase - UDG	5190-6372
		SureSelect Oligo Adaptor Mix	5190-6370
		SureSelect Primer	5190-4933
		RNA Seq Index 1-16, 8 bp	various*
		RNA Seq ILM Reverse PCR Primer	5190-6373
		RNA Seq ILM Post-capture PCR Primer	5190-6374
		RNA Seq Second Strand + End Repair Oligo Mix	5190-7763

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

Material uses	:	Analytical reagent.	
		SureSelect Ligation Master Mix	0.08 ml (16 reactions)
		RNA Seq Fragmentation Mix	0.33 ml (16 reactions)
		RNA Seq Second Strand + End Repair Enzyme Mix	0.44 ml (16 reactions)
		RNA Seq dA Tailing Master Mix	0.35 ml (16 reactions)
		RNA Seq PCR Master Mix	0.88 ml (16 reactions)
		RNA Seq First Strand Master Mix	0.14 ml (16 reactions)
		Uracil DNA Glycosylase - UDG	0.018 ml (16 reactions)
		SureSelect Oligo Adaptor Mix	0.09 ml (16 reactions)
		SureSelect Primer	0.066 ml (16 reactions)
		RNA Seq Index 1-16, 8 bp	0.015 ml (16 reactions)
		RNA Seq ILM Reverse PCR Primer	0.018 ml (16 reactions)
		RNA Seq ILM Post-capture PCR Primer	0.018 ml (16 reactions)
		RNA Seq Second Strand + End Repair Oligo Mix	0.09 ml (16 reactions)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Note * : *RNA Seq Index 1-16, 8 bp: 5190-6375, 5190-6376, 5190-6377, 5190-6378, 5190-6379, 5190-6380, 5190-6381, 5190-6382, 5190-6383, 5190-6384, 5190-6385, 5190-6386, 5190-6387, 5190-6388, 5190-6389, 5190-6390

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

SureSelect Ligation Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
RNA Seq Second-strand + End-Repair Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
RNA Seq dA Tailing Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
RNA Seq PCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
RNA Seq First Strand Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
Uracil DNA Glycosylase (UDG)	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: > 60%
RNA Seq Second-strand + End-Repair Oligo Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
SureSelect Ligation Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%
RNA Seq dA Tailing Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

GHS label elements

Signal word

: SureSelect Ligation Master Mix	No signal word.
RNA Seq Fragmentation Mix	No signal word.
RNA Seq Second-strand + End-Repair Enzyme Mix	No signal word.
RNA Seq dA Tailing Master Mix	No signal word.
RNA Seq PCR Master Mix	No signal word.
RNA Seq 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.
RNA Seq Index 1-16, 8 bp	No signal word.
RNA Seq ILM Reverse PCR Primer	No signal word.
RNA Seq ILM Post-capture PCR Primer	No signal word.
RNA Seq Second-strand + End-Repair Oligo Mix	No signal word.

Section 2. Hazard(s) identification

Hazard statements	:	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
		RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
		RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
		RNA Seq PCR Master Mix	No known significant effects or critical hazards.
		RNA Seq 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.
		RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
		RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
		RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
		RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.

Precautionary statements

Prevention	:	SureSelect Ligation Master Mix	Not applicable.
		RNA Seq Fragmentation Mix	Not applicable.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not applicable.
		RNA Seq dA Tailing Master Mix	Not applicable.
		RNA Seq PCR Master Mix	Not applicable.
		RNA Seq First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		RNA Seq Index 1-16, 8 bp	Not applicable.
		RNA Seq ILM Reverse PCR Primer	Not applicable.
		RNA Seq ILM Post-capture PCR Primer	Not applicable.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not applicable.

Response	:	SureSelect Ligation Master Mix	Not applicable.
		RNA Seq Fragmentation Mix	Not applicable.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not applicable.
		RNA Seq dA Tailing Master Mix	Not applicable.
		RNA Seq PCR Master Mix	Not applicable.
		RNA Seq First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		RNA Seq Index 1-16, 8 bp	Not applicable.
		RNA Seq ILM Reverse PCR Primer	Not applicable.
		RNA Seq ILM Post-capture PCR Primer	Not applicable.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not applicable.

Section 2. Hazard(s) identification

Storage	:	End-Repair Oligo Mix	
		<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not applicable.
		RNA Seq Fragmentation Mix	Not applicable.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not applicable.
		RNA Seq dA Tailing Master Mix	Not applicable.
		RNA Seq PCR Master Mix	Not applicable.
		RNA Seq First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		RNA Seq Index 1-16, 8 bp	Not applicable.
		RNA Seq ILM Reverse PCR Primer	Not applicable.
		RNA Seq ILM Post-capture PCR Primer	Not applicable.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not applicable.

Disposal	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not applicable.
		RNA Seq Fragmentation Mix	Not applicable.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not applicable.
		RNA Seq dA Tailing Master Mix	Not applicable.
		RNA Seq PCR Master Mix	Not applicable.
		RNA Seq First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		RNA Seq Index 1-16, 8 bp	Not applicable.
		RNA Seq ILM Reverse PCR Primer	Not applicable.
		RNA Seq ILM Post-capture PCR Primer	Not applicable.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not applicable.

Supplemental label elements

Additional warning phrases	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not applicable.
		RNA Seq Fragmentation Mix	Not applicable.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not applicable.
		RNA Seq dA Tailing Master Mix	Not applicable.
		RNA Seq PCR Master Mix	Not applicable.
		RNA Seq First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		RNA Seq Index 1-16, 8 bp	Not applicable.
		RNA Seq ILM Reverse PCR Primer	Not applicable.

Section 2. Hazard(s) identification

RNA Seq ILM Post-capture PCR Primer Not applicable.
 RNA Seq Second-strand + End-Repair Oligo Mix Not applicable.

Other hazards which do not result in classification

SureSelect Ligation Master Mix None known.
 RNA Seq Fragmentation Mix None known.
 RNA Seq Second-strand + End-Repair Enzyme Mix None known.
 RNA Seq dA Tailing Master Mix None known.
 RNA Seq PCR Master Mix None known.
 RNA Seq First Strand Master Mix None known.
 Uracil DNA Glycosylase (UDG) None known.
 SureSelect Oligo Adaptor Mix None known.
 SureSelect Primer None known.
 RNA Seq Index 1-16, 8 bp None known.
 RNA Seq ILM Reverse PCR Primer None known.
 RNA Seq ILM Post-capture PCR Primer None known.
 RNA Seq Second-strand + End-Repair Oligo Mix None known.

Section 3. Composition and ingredient information

Substance/mixture

SureSelect Ligation Master Mix Mixture
 RNA Seq Fragmentation Mix Mixture
 RNA Seq Second-strand + End-Repair Enzyme Mix Mixture
 RNA Seq dA Tailing Master Mix Mixture
 RNA Seq PCR Master Mix Mixture
 RNA Seq First Strand Master Mix Mixture
 Uracil DNA Glycosylase (UDG) Mixture
 SureSelect Oligo Adaptor Mix Mixture
 SureSelect Primer Mixture
 RNA Seq Index 1-16, 8 bp Mixture
 RNA Seq ILM Reverse PCR Primer Mixture
 RNA Seq ILM Post-capture PCR Primer Mixture
 RNA Seq Second-strand + End-Repair Oligo Mix Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> SureSelect Ligation Master Mix Glycerol Polyethylene glycol	≥30 - ≤60 ≥10 - ≤30	56-81-5 25322-68-3
RNA Seq Second-strand + End-Repair Enzyme Mix Glycerol	≥10 - ≤30	56-81-5
RNA Seq dA Tailing Master Mix		

Section 3. Composition and ingredient information

Glycerol	≥10 - ≤30	56-81-5
Polyethylene glycol	≥10 - ≤30	25322-68-3
RNA Seq PCR Master Mix		
Glycerol	≤10	56-81-5
RNA Seq First Strand Master Mix		
Glycerol	≥10 - ≤30	56-81-5
Uracil DNA Glycosylase (UDG)		
Glycerol	≥60 - ≤75	56-81-5
RNA Seq Second-strand + End-Repair Oligo Mix		
Glycerol	≥10 - ≤30	56-81-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair Enzyme 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq Index 1-16, 8 bp	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.

Section 4. First aid measures

Inhalation

RNA Seq 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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair 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.
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.
RNA Seq Fragmentation Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
RNA Seq Second-strand + End-Repair Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
RNA Seq 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.
RNA Seq PCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
RNA Seq 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.
RNA Seq Index 1-16, 8 bp	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
RNA Seq 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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	:	SureSelect Ligation Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq Fragmentation Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq dA Tailing Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq PCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq 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.
		RNA Seq Index 1-16, 8 bp	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq ILM Reverse PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq ILM Post-capture PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		RNA Seq Second-strand + End-Repair Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Ingestion	:
RNA Seq Fragmentation Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.		
RNA Seq Second-strand + End-Repair Enzyme Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.		
RNA Seq dA Tailing Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the		

Section 4. First aid measures

	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.
RNA Seq PCR Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
RNA Seq First Strand Master Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
RNA Seq Index 1-16, 8 bp	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
RNA Seq ILM Reverse PCR Primer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
RNA Seq ILM Post-capture PCR Primer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
RNA Seq Second-strand + End-Repair Oligo Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the

Section 4. First aid measures

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	☑ SureSelect Ligation Master Mix	No known significant effects or critical hazards.	
		RNA Seq Fragmentation Mix	No known significant effects or critical hazards.	
		RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.	
		RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.	
		RNA Seq PCR Master Mix	No known significant effects or critical hazards.	
		RNA Seq 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.	
		RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.	
		RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.	
		RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.	
		RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.	
	Inhalation	:	☑ SureSelect Ligation Master Mix	No known significant effects or critical hazards.
			RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
		RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.	
		RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.	
		RNA Seq PCR Master Mix	No known significant effects or critical hazards.	
		RNA Seq 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.	
		RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.	
		RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.	
		RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.	
		RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.	
Skin contact		:	☑ SureSelect Ligation Master Mix	No known significant effects or critical hazards.
			RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
		RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.	
		RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.	
		RNA Seq PCR Master Mix	No known significant effects or critical hazards.	
		RNA Seq 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.	

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	SureSelect Primer	No known significant effects or critical hazards.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Ingestion	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.
Inhalation	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.

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	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.
Skin contact	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.
Ingestion	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.

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

Notes to physician	: 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.
	RNA Seq Fragmentation Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

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	RNA Seq dA Tailing Master Mix	ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	RNA Seq PCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Seq ILM Reverse PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Seq ILM Post-capture PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Seq Second-strand + End-Repair Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SureSelect Ligation Master Mix	No specific treatment.
	RNA Seq Fragmentation Mix	No specific treatment.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific treatment.
	RNA Seq dA Tailing Master Mix	No specific treatment.
	RNA Seq PCR Master Mix	No specific treatment.
	RNA Seq First Strand Master Mix	No specific treatment.
	Uracil DNA Glycosylase (UDG)	No specific treatment.
	SureSelect Oligo Adaptor Mix	No specific treatment.
	SureSelect Primer	No specific treatment.
	RNA Seq Index 1-16, 8 bp	No specific treatment.
	RNA Seq ILM Reverse PCR Primer	No specific treatment.
	RNA Seq ILM Post-capture PCR Primer	No specific treatment.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific treatment.
Protection of first-aiders	: SureSelect Ligation Master Mix	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq Fragmentation Mix	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq dA Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training.
	RNA Seq PCR Master Mix	No action shall be taken involving any personal risk or without suitable training.

Section 4. First aid measures

RNA Seq First Strand Master Mix	No action shall be taken involving any personal risk or without suitable training.
Uracil DNA Glycosylase (UDG)	No action shall be taken involving any personal risk or without suitable training.
SureSelect Oligo Adaptor Mix	No action shall be taken involving any personal risk or without suitable training.
SureSelect Primer	No action shall be taken involving any personal risk or without suitable training.
RNA Seq Index 1-16, 8 bp	No action shall be taken involving any personal risk or without suitable training.
RNA Seq ILM Reverse PCR Primer	No action shall be taken involving any personal risk or without suitable training.
RNA Seq ILM Post-capture PCR Primer	No action shall be taken involving any personal risk or without suitable training.
RNA Seq Second-strand + End-Repair Oligo Mix	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

☑ SureSelect Ligation Master Mix	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq Fragmentation Mix	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq Second-strand + End-Repair Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq dA Tailing Master Mix	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq 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.
RNA Seq Index 1-16, 8 bp	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq ILM Reverse PCR Primer	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq ILM Post-capture PCR Primer	Use an extinguishing agent suitable for the surrounding fire.
RNA Seq Second-strand + End-Repair Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

☒ SureSelect Ligation Master Mix	None known.
RNA Seq Fragmentation Mix	None known.
RNA Seq Second-strand + End-Repair Enzyme Mix	None known.
RNA Seq dA Tailing Master Mix	None known.
RNA Seq PCR Master Mix	None known.
RNA Seq First Strand Master Mix	None known.
Uracil DNA Glycosylase (UDG)	None known.
SureSelect Oligo Adaptor Mix	None known.
SureSelect Primer	None known.
RNA Seq Index 1-16, 8 bp	None known.

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	RNA Seq ILM Reverse PCR Primer	None known.
	RNA Seq ILM Post-capture PCR Primer	None known.
	RNA Seq Second-strand + End-Repair Oligo Mix	None known.
Specific hazards arising from the chemical	SureSelect Ligation Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq Fragmentation Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq Second-strand + End-Repair Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq dA Tailing Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq PCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq First Strand Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Uracil DNA Glycosylase (UDG)	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.
	RNA Seq Index 1-16, 8 bp	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq ILM Reverse PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq ILM Post-capture PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Seq Second-strand + End-Repair Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	SureSelect Ligation Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	RNA Seq dA Tailing Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	RNA Seq PCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	RNA Seq 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

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	SureSelect Oligo Adaptor Mix	carbon monoxide No specific data.
	SureSelect Primer	No specific data.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	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.
	RNA Seq 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.
	RNA Seq Second-strand + End-Repair 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.
	RNA Seq 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.
	RNA Seq PCR 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.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	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.
	RNA Seq 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.
	RNA Seq 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.

Section 5. Firefighting measures

Special protective equipment for fire-fighters

RNA Seq Second-strand + End-Repair 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.
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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq Index 1-16, 8 bp	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
RNA Seq 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.
RNA Seq ILM Post-capture 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.
RNA Seq Second-strand + End-Repair 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq Index 1-16, 8 bp	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.
RNA Seq ILM Reverse PCR Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

Section 6. Accidental release measures

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

RNA Seq 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.

RNA Seq Second-strand +
End-Repair 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.

For emergency responders : 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".

RNA Seq 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".

RNA Seq Second-strand +
End-Repair 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".

RNA Seq 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".

RNA Seq 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".

RNA Seq 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".

RNA Seq Index 1-16, 8 bp

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".

RNA Seq 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".

RNA Seq 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

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	RNA Seq Second-strand + End-Repair Oligo Mix	information in "For non-emergency personnel". 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".
Environmental precautions	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).
	RNA Seq 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).
	RNA Seq Second-strand + End-Repair 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).
	RNA Seq 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).
	RNA Seq 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).
	RNA Seq 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).
	RNA Seq Index 1-16, 8 bp	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).
	RNA Seq 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).
	RNA Seq ILM Post-capture PCR Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 6. Accidental release measures

RNA Seq Second-strand +
End-Repair Oligo Mix

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

Methods and material for containment and cleaning up

Methods for cleaning up

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 of via a licensed waste disposal contractor.

RNA Seq 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.

RNA Seq Second-strand +
End-Repair Enzyme 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.

RNA Seq 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.

RNA Seq 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.

RNA Seq 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.

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RNA Seq Index 1-16, 8 bp	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.
RNA Seq 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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

☑ SureSelect Ligation Master Mix	Put on appropriate personal protective equipment (see Section 8).
RNA Seq Fragmentation Mix	Put on appropriate personal protective equipment (see Section 8).
RNA Seq Second-strand + End-Repair Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
RNA Seq dA Tailing Master Mix	Put on appropriate personal protective equipment (see Section 8).
RNA Seq PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
RNA Seq 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).
RNA Seq Index 1-16, 8 bp	Put on appropriate personal protective equipment (see Section 8).
RNA Seq ILM Reverse PCR Primer	Put on appropriate personal protective equipment (see Section 8).
RNA Seq ILM Post-capture PCR Primer	Put on appropriate personal protective equipment (see Section 8).
RNA Seq Second-strand + End-Repair Oligo Mix	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

☑ 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.
RNA Seq Fragmentation Mix	Eating, drinking and smoking should be prohibited in

Section 7. Handling and storage

	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.
RNA Seq Second-strand + End-Repair 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.
RNA Seq 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.
RNA Seq 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.
RNA Seq 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.
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.
RNA Seq Index 1-16, 8 bp	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.
RNA Seq ILM Reverse PCR	Eating, drinking and smoking should be prohibited in

Section 7. Handling and storage

Primer	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.
RNA Seq 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.
RNA Seq Second-strand + End-Repair 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.

Conditions for safe storage, including any incompatibilities : 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 before handling or use.

RNA Seq 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.
RNA Seq Second-strand + End-Repair Enzyme 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.
RNA Seq 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

Section 7. Handling and storage

RNA Seq PCR Master Mix	environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
RNA Seq 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 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.
RNA Seq Index 1-16, 8 bp	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

Section 7. Handling and storage

RNA Seq ILM Reverse PCR Primer

prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-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.

RNA Seq 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.

RNA Seq Second-strand + End-Repair 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.

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
SureSelect Ligation Master Mix Glycerol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours.
Polyethylene glycol	DFG MAC-values list (Germany, 7/2017). PEAK: 8000 mg/m ³ , 4 times per shift, 15 minutes. Form: Inhalable fraction TWA: 1000 mg/m ³ 8 hours. Form: Inhalable fraction
RNA Seq Second-strand + End-Repair Enzyme Mix Glycerol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours.
RNA Seq dA Tailing Master Mix Glycerol Polyethylene glycol	Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m ³ 8 hours. DFG MAC-values list (Germany, 7/2017). PEAK: 8000 mg/m ³ , 4 times per shift, 15 minutes. Form: Inhalable fraction

Section 8. Exposure controls and personal protection

<p>RNA Seq PCR Master Mix Glycerol</p>	<p>TWA: 1000 mg/m³ 8 hours. Form: Inhalable fraction</p> <p>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours.</p>
<p>RNA Seq First Strand Master Mix Glycerol</p>	<p>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours.</p>
<p>Uracil DNA Glycosylase (UDG) Glycerol</p>	<p>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours.</p>
<p>RNA Seq Second-strand + End-Repair Oligo Mix Glycerol</p>	<p>Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours.</p>

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

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.

Section 9. Physical and chemical properties

Appearance

Physical state	:	☑ SureSelect Ligation Master Mix	Liquid.	
		RNA Seq Fragmentation Mix	Liquid.	
		RNA Seq Second-strand + End-Repair Enzyme Mix	Liquid.	
		RNA Seq dA Tailing Master Mix	Liquid.	
		RNA Seq PCR Master Mix	Liquid.	
		RNA Seq First Strand Master Mix	Liquid.	
		Uracil DNA Glycosylase (UDG)	Liquid.	
		SureSelect Oligo Adaptor Mix	Liquid.	
		SureSelect Primer	Liquid.	
		RNA Seq Index 1-16, 8 bp	Liquid.	
		RNA Seq ILM Reverse PCR Primer	Liquid.	
		RNA Seq ILM Post-capture PCR Primer	Liquid.	
		RNA Seq Second-strand + End-Repair Oligo Mix	Liquid.	
	Colour	:	☑ SureSelect Ligation Master Mix	Not available.
			RNA Seq Fragmentation Mix	Not available.
			RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
			RNA Seq dA Tailing Master Mix	Not available.
			RNA Seq PCR Master Mix	Not available.
			RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.	
		SureSelect Oligo Adaptor Mix	Not available.	
		SureSelect Primer	Not available.	
		RNA Seq Index 1-16, 8 bp	Not available.	
		RNA Seq ILM Reverse PCR Primer	Not available.	
		RNA Seq ILM Post-capture PCR Primer	Not available.	
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.	
Odour		:	☑ SureSelect Ligation Master Mix	Not available.
			RNA Seq Fragmentation Mix	Not available.
			RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
			RNA Seq dA Tailing Master Mix	Not available.
			RNA Seq PCR Master Mix	Not available.
			RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.	
		SureSelect Oligo Adaptor Mix	Not available.	
		SureSelect Primer	Not available.	
		RNA Seq Index 1-16, 8 bp	Not available.	
		RNA Seq ILM Reverse PCR Primer	Not available.	
		RNA Seq ILM Post-capture PCR Primer	Not available.	

Section 9. Physical and chemical properties

		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Odour threshold	:	☑ SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
pH	:	☑ SureSelect Ligation Master Mix	7.5
		RNA Seq Fragmentation Mix	8.3
		RNA Seq Second-strand + End-Repair Enzyme Mix	8.3
		RNA Seq dA Tailing Master Mix	7.5
		RNA Seq PCR Master Mix	8.8
		RNA Seq First Strand Master Mix	8.3
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	7.5
		RNA Seq Index 1-16, 8 bp	7
		RNA Seq ILM Reverse PCR Primer	7
		RNA Seq ILM Post-capture PCR Primer	7
		RNA Seq Second-strand + End-Repair Oligo Mix	7.5
Melting point	:	☑ SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	0°C (32°F)
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	0°C (32°F)
		SureSelect Primer	0°C (32°F)
		RNA Seq Index 1-16, 8 bp	0°C (32°F)
		RNA Seq ILM Reverse PCR Primer	0°C (32°F)
		RNA Seq ILM Post-capture PCR Primer	0°C (32°F)

Section 9. Physical and chemical properties

		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Boiling point	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	100°C (212°F)
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	100°C (212°F)
		SureSelect Primer	100°C (212°F)
		RNA Seq Index 1-16, 8 bp	100°C (212°F)
		RNA Seq ILM Reverse PCR Primer	100°C (212°F)
		RNA Seq ILM Post-capture PCR Primer	100°C (212°F)
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Flash point	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Evaporation rate	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.

Section 9. Physical and chemical properties

		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Flammability (solid, gas)	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not applicable.
		RNA Seq Fragmentation Mix	Not applicable.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not applicable.
		RNA Seq dA Tailing Master Mix	Not applicable.
		RNA Seq PCR Master Mix	Not applicable.
		RNA Seq First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		RNA Seq Index 1-16, 8 bp	Not applicable.
		RNA Seq ILM Reverse PCR Primer	Not applicable.
		RNA Seq ILM Post-capture PCR Primer	Not applicable.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not applicable.
Lower and upper explosive (flammable) limits	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Vapour pressure	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.

Section 9. Physical and chemical properties

	RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Vapour density	: SureSelect Ligation Master Mix	Not available.
	RNA Seq Fragmentation Mix	Not available.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
	RNA Seq dA Tailing Master Mix	Not available.
	RNA Seq PCR Master Mix	Not available.
	RNA Seq First Strand Master Mix	Not available.
	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo Adaptor Mix	Not available.
	SureSelect Primer	Not available.
	RNA Seq Index 1-16, 8 bp	Not available.
	RNA Seq ILM Reverse PCR Primer	Not available.
	RNA Seq ILM Post-capture PCR Primer	Not available.
	RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Relative density	: SureSelect Ligation Master Mix	Not available.
	RNA Seq Fragmentation Mix	Not available.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
	RNA Seq dA Tailing Master Mix	Not available.
	RNA Seq PCR Master Mix	Not available.
	RNA Seq First Strand Master Mix	Not available.
	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo Adaptor Mix	Not available.
	SureSelect Primer	Not available.
	RNA Seq Index 1-16, 8 bp	Not available.
	RNA Seq ILM Reverse PCR Primer	Not available.
	RNA Seq ILM Post-capture PCR Primer	Not available.
	RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Solubility	: SureSelect Ligation Master Mix	Soluble in the following materials: cold water and hot water.
	RNA Seq Fragmentation Mix	Easily soluble in the following materials: cold water and hot water.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Soluble in the following materials: cold water and hot water.
	RNA Seq dA Tailing Master Mix	Soluble in the following materials: cold water and hot water.
	RNA Seq PCR Master Mix	Soluble in the following materials: cold water and hot water.
	RNA Seq First Strand Master Mix	Soluble in the following materials: cold water and hot water.
	Uracil DNA Glycosylase (UDG)	Soluble in the following materials: cold water and hot water.
	SureSelect Oligo Adaptor Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Primer	Easily soluble in the following materials: cold water and hot water.
	RNA Seq Index 1-16, 8 bp	Easily soluble in the following materials: cold water

Section 9. Physical and chemical properties

			and hot water.
		RNA Seq ILM Reverse PCR Primer	Easily soluble in the following materials: cold water and hot water.
		RNA Seq ILM Post-capture PCR Primer	Easily soluble in the following materials: cold water and hot water.
		RNA Seq Second-strand + End-Repair Oligo Mix	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Auto-ignition temperature	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		RNA Seq Index 1-16, 8 bp	Not available.
		RNA Seq ILM Reverse PCR Primer	Not available.
		RNA Seq ILM Post-capture PCR Primer	Not available.
		RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Decomposition temperature	:	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Not available.
		RNA Seq Fragmentation Mix	Not available.
		RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
		RNA Seq dA Tailing Master Mix	Not available.
		RNA Seq PCR Master Mix	Not available.
		RNA Seq First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.

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	RNA Seq Index 1-16, 8 bp	Not available.
	RNA Seq ILM Reverse PCR Primer	Not available.
	RNA Seq ILM Post-capture PCR Primer	Not available.
	RNA Seq Second-strand + End-Repair Oligo Mix	Not available.
Viscosity	: SureSelect Ligation Master Mix	Not available.
	RNA Seq Fragmentation Mix	Not available.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Not available.
	RNA Seq dA Tailing Master Mix	Not available.
	RNA Seq PCR Master Mix	Not available.
	RNA Seq First Strand Master Mix	Not available.
	Uracil DNA Glycosylase (UDG)	Not available.
	SureSelect Oligo Adaptor Mix	Not available.
	SureSelect Primer	Not available.
	RNA Seq Index 1-16, 8 bp	Not available.
	RNA Seq ILM Reverse PCR Primer	Not available.
	RNA Seq ILM Post-capture PCR Primer	Not available.
	RNA Seq Second-strand + End-Repair Oligo Mix	Not available.

Section 10. Stability and reactivity

Reactivity	: SureSelect Ligation Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq Fragmentation Mix	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq dA Tailing Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq PCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq ILM Reverse PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq ILM Post-capture PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.

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Chemical stability	: SureSelect Ligation Master Mix	The product is stable.	
	RNA Seq Fragmentation Mix	The product is stable.	
	RNA Seq Second-strand + End-Repair Enzyme Mix	The product is stable.	
	RNA Seq dA Tailing Master Mix	The product is stable.	
	RNA Seq PCR Master Mix	The product is stable.	
	RNA Seq 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.	
	RNA Seq Index 1-16, 8 bp	The product is stable.	
	RNA Seq ILM Reverse PCR Primer	The product is stable.	
	RNA Seq ILM Post-capture PCR Primer	The product is stable.	
	RNA Seq Second-strand + End-Repair Oligo Mix	The product is stable.	
	Possibility of hazardous reactions	: SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
		RNA Seq Fragmentation Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
RNA Seq Second-strand + End-Repair Enzyme Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
RNA Seq dA Tailing Master Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
RNA Seq PCR Master Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
RNA Seq 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 reactions will not occur.	
RNA Seq Index 1-16, 8 bp		Under normal conditions of storage and use, hazardous reactions will not occur.	
RNA Seq ILM Reverse PCR Primer		Under normal conditions of storage and use, hazardous reactions will not occur.	
RNA Seq ILM Post-capture PCR Primer		Under normal conditions of storage and use, hazardous reactions will not occur.	
RNA Seq Second-strand + End-Repair Oligo Mix		Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid		: SureSelect Ligation Master Mix	No specific data.
		RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.	
	RNA Seq dA Tailing Master Mix	No specific data.	
	RNA Seq PCR Master Mix	No specific data.	
	RNA Seq 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.	

Section 10. Stability and reactivity

RNA Seq Index 1-16, 8 bp	No specific data.
RNA Seq ILM Reverse PCR Primer	No specific data.
RNA Seq ILM Post-capture PCR Primer	No specific data.
RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.

Incompatible materials	: SureSelect Ligation Master Mix	May react or be incompatible with oxidising materials.
	RNA Seq Fragmentation Mix	May react or be incompatible with oxidising materials.
	RNA Seq Second-strand + End-Repair Enzyme Mix	May react or be incompatible with oxidising materials.
	RNA Seq dA Tailing Master Mix	May react or be incompatible with oxidising materials.
	RNA Seq PCR Master Mix	May react or be incompatible with oxidising materials.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	May react or be incompatible with oxidising materials.
	RNA Seq ILM Reverse PCR Primer	May react or be incompatible with oxidising materials.
	RNA Seq ILM Post-capture PCR Primer	May react or be incompatible with oxidising materials.
	RNA Seq Second-strand + End-Repair Oligo Mix	May react or be incompatible with oxidising materials.

Hazardous decomposition products	: SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq Fragmentation Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq Second-strand + End-Repair Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq dA Tailing Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq PCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq 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.
	SureSelect Oligo Adaptor Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq Index 1-16, 8 bp	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Seq ILM Reverse PCR Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

RNA Seq ILM Post-capture
PCR Primer

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

RNA Seq Second-strand +
End-Repair Oligo Mix

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
SureSelect Ligation Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-	
	Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
		Eyes - Mild irritant	Rabbit	-	500 milligrams	-
		Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
		Skin - Mild irritant	Rabbit	-	500 milligrams	-
RNA Seq Second-strand + End-Repair Enzyme Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-	

Section 11. Toxicological information

RNA Seq dA Tailing Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
RNA Seq PCR Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
RNA Seq First Strand Master Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Uracil DNA Glycosylase (UDG) Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
RNA Seq Second-strand + End-Repair Oligo Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

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.

Section 11. Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure	<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<input type="checkbox"/> RNA Seq Fragmentation Mix	Not available.
	<input type="checkbox"/> RNA Seq Second-strand + End-Repair Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<input type="checkbox"/> RNA Seq dA Tailing Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<input type="checkbox"/> RNA Seq PCR Master Mix	Not available.
	<input type="checkbox"/> RNA Seq First Strand Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<input type="checkbox"/> Uracil DNA Glycosylase (UDG)	Routes of entry anticipated: Oral, Dermal, Inhalation.
	<input type="checkbox"/> SureSelect Oligo Adaptor Mix	Not available.
	<input type="checkbox"/> SureSelect Primer	Not available.
	<input type="checkbox"/> RNA Seq Index 1-16, 8 bp	Not available.
	<input type="checkbox"/> RNA Seq ILM Reverse PCR Primer	Not available.
	<input type="checkbox"/> RNA Seq ILM Post-capture PCR Primer	Not available.
	<input type="checkbox"/> RNA Seq Second-strand + End-Repair Oligo Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq PCR Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq First Strand Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
<input type="checkbox"/> SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
<input type="checkbox"/> SureSelect Primer	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.

Inhalation

<input checked="" type="checkbox"/> SureSelect Ligation Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq PCR Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq First Strand Master Mix	No known significant effects or critical hazards.
<input type="checkbox"/> Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
<input type="checkbox"/> SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
<input type="checkbox"/> SureSelect Primer	No known significant effects or critical hazards.
<input type="checkbox"/> RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.

Section 11. Toxicological information

	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Skin contact	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Ingestion	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.

Section 11. Toxicological information

	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.
Inhalation	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.
Skin contact	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No specific data.
	RNA Seq ILM Reverse PCR Primer	No specific data.
	RNA Seq ILM Post-capture PCR Primer	No specific data.
	RNA Seq Second-strand + End-Repair Oligo Mix	No specific data.
Ingestion	: SureSelect Ligation Master Mix	No specific data.
	RNA Seq Fragmentation Mix	No specific data.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No specific data.
	RNA Seq dA Tailing Master Mix	No specific data.
	RNA Seq PCR Master Mix	No specific data.
	RNA Seq First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase	No specific data.

Section 11. Toxicological information

(UDG)	
SureSelect Oligo Adaptor Mix	No specific data.
SureSelect Primer	No specific data.
RNA Seq Index 1-16, 8 bp	No specific data.
RNA Seq ILM Reverse PCR Primer	No specific data.
RNA Seq ILM Post-capture PCR Primer	No specific data.
RNA Seq Second-strand + End-Repair 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

General	: <input checked="" type="checkbox"/> SureSelect Ligation Master Mix	No known significant effects or critical hazards.	
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.	
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.	
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.	
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.	
	RNA Seq 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.	
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.	
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.	
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.	
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.	
	Carcinogenicity	: <input checked="" type="checkbox"/> SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
		RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
		RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
		RNA Seq PCR Master Mix	No known significant effects or critical hazards.
		RNA Seq 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.	
RNA Seq Index 1-16, 8 bp		No known significant effects or critical hazards.	
RNA Seq ILM Reverse PCR Primer		No known significant effects or critical hazards.	
RNA Seq ILM Post-capture		No known significant effects or critical hazards.	

Section 11. Toxicological information

	PCR Primer	
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Mutagenicity	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Teratogenicity	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Developmental effects	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.

Section 11. Toxicological information

	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.
Fertility effects	: SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	RNA Seq Fragmentation Mix	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Enzyme Mix	No known significant effects or critical hazards.
	RNA Seq dA Tailing Master Mix	No known significant effects or critical hazards.
	RNA Seq PCR Master Mix	No known significant effects or critical hazards.
	RNA Seq 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.
	RNA Seq Index 1-16, 8 bp	No known significant effects or critical hazards.
	RNA Seq ILM Reverse PCR Primer	No known significant effects or critical hazards.
	RNA Seq ILM Post-capture PCR Primer	No known significant effects or critical hazards.
	RNA Seq Second-strand + End-Repair Oligo Mix	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
SureSelect Ligation Master Mix Glycerol Polyethylene glycol	Acute LC50 54000 mg/l Fresh water Acute LC50 >1000000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Salmo salar - Parr	96 hours 96 hours
RNA Seq Second-strand + End-Repair Enzyme Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
RNA Seq dA Tailing Master Mix Glycerol Polyethylene glycol	Acute LC50 54000 mg/l Fresh water Acute LC50 >1000000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Salmo salar - Parr	96 hours 96 hours
RNA Seq PCR Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
RNA Seq First Strand Master Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Uracil DNA Glycosylase (UDG) Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Section 12. Ecological information

RNA Seq Second-strand + End-Repair Oligo Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
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Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
SureSelect Ligation Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNA Seq Second-strand + End-Repair Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNA Seq dA Tailing Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNA Seq PCR Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNA Seq First Strand Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Uracil DNA Glycosylase (UDG) Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
RNA Seq Second-strand + End-Repair Oligo Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect Ligation Master Mix			
Glycerol	-1.76	-	low
Polyethylene glycol	-	3.2	low
RNA Seq Second-strand + End-Repair Enzyme Mix			
Glycerol	-1.76	-	low
RNA Seq dA Tailing Master Mix			
Glycerol	-1.76	-	low
Polyethylene glycol	-	3.2	low
RNA Seq PCR Master Mix			
Glycerol	-1.76	-	low
RNA Seq First Strand Master Mix			
Glycerol	-1.76	-	low
Uracil DNA Glycosylase (UDG)			
Glycerol	-1.76	-	low
RNA Seq Second-strand + End-Repair Oligo Mix			
Glycerol	-1.76	-	low

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

Section 14. Transport information

Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: <input checked="" type="checkbox"/> Not determined.
Europe	: <input checked="" type="checkbox"/> Not determined.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: <input checked="" type="checkbox"/> Not determined.
New Zealand	: <input checked="" type="checkbox"/> Not determined.
Philippines	: <input checked="" type="checkbox"/> Not determined.
Republic of Korea	: <input checked="" type="checkbox"/> Not determined.
Taiwan	: <input checked="" type="checkbox"/> All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 21/11/2018
Date of previous issue	: 02/10/2014
Version	: 3

Section 16. Any other relevant information

Key to abbreviations :

- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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Note * : *RNA Seq Index 1-16, 8 bp: 5190-6375, 5190-6376, 5190-6377, 5190-6378, 5190-6379, 5190-6380, 5190-6381, 5190-6382, 5190-6383, 5190-6384, 5190-6385, 5190-6386, 5190-6387, 5190-6388, 5190-6389, 5190-6390