

SAFETY DATA SHEET

SureSelect XT HS Reagent Kit, index 17-32 + Human All Exon V6+UTR Target Enrichment Baits,
16rxn, Part Number G9705 A-M

Section 1. Identification

1.1 Product identifier

Product name	: SureSelect XT HS Reagent Kit, index 17-32 + Human All Exon V6+UTR Target Enrichment Baits, 16rxn, Part Number G9705 A-M	
Part no. (chemical kit)	: G9705 A-M	
Part no.	: <input checked="" type="checkbox"/> <u>SureSelect XT HS Library Preparation Kit for ILM (Pre PCR), 16 Rxn</u>	5500-0138
	End Repair-A Tailing Enzyme Mix	5190-6412
	End Repair-A Tailing Buffer	5190-6413
	T4 DNA Ligase	5190-6414
	Ligation Buffer	5190-6415
	Adaptor Oligo Mix	5190-6416
	Forward Primer	5190-6417
	<u>SureSelect XT HS Library Preparation Kit for ILM (Pre PCR), 16 Rxn / SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 16 Rxn</u>	<u>5500-0138 / 5190-9684</u>
	100 mM dNTP Mix (25 mM each dNTP)	5190-6418
	Herculase II Fusion DNA Polymerase	5190-7742
	5X Herculase II Reaction Buffer	600675-52
	<u>SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 1 (Post PCR), 16 Rxn</u>	<u>5190-9685</u>
	SureSelect Binding Buffer	5190-4399
	SureSelect Wash Buffer 1	5190-4400
	SureSelect Wash Buffer 2	5190-4401
	<u>SureSelect XT HS Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 16 Rxn</u>	<u>5190-9684</u>
	SureSelect XT HS Blocker Mix	5190-9683
	SureSelect Fast Hybridization Buffer	5190-7327
	SureSelect RNase Block	5190-4383
	SureSelect Post- Capture Primer Mix	5190-9730
	<u>SureSelect XT HS Index Primers 17-32 for ILM (Pre PCR)</u>	<u>5500-0142</u>
	SureSelect XT HS Index Primer A03	5190-9740
	SSEL XT HS and XT Low Input Custom Capture Library	5190-9917 / 5190-9918 / 5190-9919 / 5190-9920 / 5190-9921 / 5190-9937 / 5190-9949 / 5190-9951 / 5190-9939 / 5190-9953 / 5190-9941
	<u>SSEL XT HS Human All Exon V6+UTRs</u>	<u>5190-9226</u>
	SSEL XT HS Human All Exon V6+UTRs	5190-9226

Validation date : 1/28/2019

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

Material uses	: Analytical reagent. For Research Use Only. Not for use in diagnostic procedures.	
	<input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	0.064 ml (16 reactions)
	End Repair-A Tailing Buffer	0.256 ml (16 reactions)
	T4 DNA Ligase	0.032 ml (16 reactions)
	Ligation Buffer	0.368 ml (16 reactions)
	Adaptor Oligo Mix	0.08 ml (16 reactions)
	Forward Primer	0.032 ml (16 reactions)
	100 mM dNTP Mix (25 mM each dNTP)	0.009 ml (16 reactions)
	Herculase II Fusion DNA Polymerase	0.016 ml (32 reactions)
	5X Herculase II Reaction Buffer	1.5 ml

Section 1. Identification

SureSelect Binding Buffer	13.2 ml
SureSelect Wash Buffer 1	8 ml
SureSelect Wash Buffer 2	24 ml
SureSelect XT HS Blocker Mix	0.08 ml (16 Reactions)
SureSelect Fast Hybridization Buffer	0.45 ml
SureSelect RNase Block	0.016 ml
SureSelect Post- Capture Primer Mix	0.016 ml (16 reactions)
SureSelect XT HS Index Primer A03	16 x 0.01 ml (16 reactions)
SSEL XT HS and XT Low Input Custom Capture Library	0.032 - 0.08 ml (16 reactions)
SSel XT HS Human All Exon V6+UTRs	0.08 ml (16 reactions)

[1.3 Details of the supplier of the safety data sheet](#)

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

[1.4 Emergency telephone number](#)

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

[2.1 Classification of the substance or mixture](#)

OSHA/HCS status	<p>End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer</p> <p>T4 DNA Ligase</p> <p>Ligation Buffer</p> <p>Adaptor Oligo Mix</p> <p>Forward Primer</p> <p>100 mM dNTP Mix (25 mM each dNTP)</p> <p>Herculase II Fusion DNA Polymerase 5X Herculase II Reaction</p>	<p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p> <p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the</p>
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Section 2. Hazards identification

Buffer	OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Binding Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Wash Buffer 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Wash Buffer 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect XT HS and XT Low Input Blocker Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect Fast Hybridization Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect RNase Block	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
SureSelect Post- Capture Primer Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect XT HS Index Primer A03-H04	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SSEL XT HS and XT Low Input Custom Capture Library	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SSEL XT HS Human All Exon V6+UTRs	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

Section 2. Hazards identification

This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

End Repair-A Tailing Enzyme

Mix
H320 EYE IRRITATION - Category 2B

T4 DNA Ligase

H320 EYE IRRITATION - Category 2B

Ligation Buffer

H320 EYE IRRITATION - Category 2B
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Herculase II Fusion DNA

Polymerase

H320 EYE IRRITATION - Category 2B

SureSelect RNase Block

H320 EYE IRRITATION - Category 2B

Ingredients of unknown toxicity	: End Repair-A Tailing Enzyme Mix	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 30 - 60%
	End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%
	T4 DNA Ligase	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 1 - 10%
	Ligation Buffer	Percentage of the mixture consisting of ingredient (s) of unknown acute oral toxicity: 1 - 10%
	100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 30 - 60%
	Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 30 - 60%
	5X Herculase II Reaction Buffer	Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%
	SureSelect Binding Buffer	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 1 - 10%
	SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 1 - 10%
	SureSelect RNase Block	Percentage of the mixture consisting of ingredient (s) of unknown acute dermal toxicity: 1 - 10%
	SSEL XT HS and XT Low Input Custom Capture Library	Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient (s) of unknown acute inhalation toxicity: 1 - 10%

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End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1.7%
100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 5.3%
SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1.6%

2.2 GHS label elements

Hazard pictograms

: Ligation Buffer



Signal word

End Repair-A Tailing Enzyme Mix	Warning
End Repair-A Tailing Buffer	No signal word.
T4 DNA Ligase	Warning
Ligation Buffer	Warning
Adaptor Oligo Mix	No signal word.
Forward Primer	No signal word.
100 mM dNTP Mix (25 mM each dNTP)	No signal word.
Herculase II Fusion DNA Polymerase	Warning
5X Herculase II Reaction Buffer	No signal word.
SureSelect Binding Buffer	No signal word.
SureSelect Wash Buffer 1	No signal word.
SureSelect Wash Buffer 2	No signal word.
SureSelect XT HS and XT Low Input Blocker Mix	No signal word.
SureSelect Fast Hybridization Buffer	No signal word.
SureSelect RNase Block	Warning
SureSelect Post- Capture Primer Mix	No signal word.
SureSelect XT HS Index Primer A03-H04	No signal word.
SSEL XT HS and XT Low Input Custom Capture Library	No signal word.
SSEL XT HS Human All Exon V6+UTRs	No signal word.

Hazard statements

End Repair-A Tailing Enzyme Mix	H320 - Causes eye irritation.
End Repair-A Tailing Buffer	No known significant effects or critical hazards.
T4 DNA Ligase	H320 - Causes eye irritation.
Ligation Buffer	H320 - Causes eye irritation. H335 - May cause respiratory irritation.
Adaptor Oligo Mix	No known significant effects or critical hazards.
Forward Primer	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	H320 - Causes eye irritation.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.

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SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	H320 - Causes eye irritation.
SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.

Precautionary statements

Prevention

End Repair-A Tailing Enzyme Mix	P264 - Wash hands thoroughly after handling.
End Repair-A Tailing Buffer	Not applicable.
T4 DNA Ligase	P264 - Wash hands thoroughly after handling.
Ligation Buffer	P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling.
Adaptor Oligo Mix	Not applicable.
Forward Primer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	P264 - Wash hands thoroughly after handling.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	P264 - Wash hands thoroughly after handling.
SureSelect Post- Capture Primer Mix	Not applicable.
SureSelect XT HS Index Primer A03-H04	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
SSel XT HS Human All Exon V6+UTRs	Not applicable.

Response

End Repair-A Tailing Enzyme Mix	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
End Repair-A Tailing Buffer	Not applicable.
T4 DNA Ligase	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Ligation Buffer	P304 + P340 + P312 - IF INHALED: Remove

Section 2. Hazards identification

	person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Adaptor Oligo Mix	Not applicable.
Forward Primer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
SureSelect Post- Capture Primer Mix	Not applicable.
SureSelect XT HS Index Primer A03-H04	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
Ssel XT HS Human All Exon V6+UTRs	Not applicable.
End Repair-A Tailing Enzyme Mix	Not applicable.
End Repair-A Tailing Buffer	Not applicable.
T4 DNA Ligase	Not applicable.
Ligation Buffer	P405 - Store locked up.
Adaptor Oligo Mix	Not applicable.
Forward Primer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.

Storage

End Repair-A Tailing Enzyme Mix	Not applicable.
End Repair-A Tailing Buffer	Not applicable.
T4 DNA Ligase	Not applicable.
Ligation Buffer	P405 - Store locked up.
Adaptor Oligo Mix	Not applicable.
Forward Primer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.

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Disposal

SureSelect RNase Block	Not applicable.
SureSelect Post- Capture Primer Mix	Not applicable.
SureSelect XT HS Index Primer A03-H04	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
SSel XT HS Human All Exon V6+UTRs	Not applicable.
End Repair-A Tailing Enzyme Mix	Not applicable.
End Repair-A Tailing Buffer	Not applicable.
T4 DNA Ligase	Not applicable.
Ligation Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Adaptor Oligo Mix	Not applicable.
Forward Primer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Post- Capture Primer Mix	Not applicable.
SureSelect XT HS Index Primer A03-H04	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
SSel XT HS Human All Exon V6+UTRs	Not applicable.

Supplemental label elements

End Repair-A Tailing Enzyme Mix	None known.
End Repair-A Tailing Buffer	None known.
T4 DNA Ligase	None known.
Ligation Buffer	None known.
Adaptor Oligo Mix	None known.
Forward Primer	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
Herculase II Fusion DNA Polymerase	None known.
5X Herculase II Reaction Buffer	None known.
SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.
SureSelect XT HS and XT Low Input Blocker Mix	None known.
SureSelect Fast Hybridization Buffer	None known.
SureSelect RNase Block	None known.
SureSelect Post- Capture Primer Mix	None known.

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SureSelect XT HS Index Primer A03-H04	None known.
SSEL XT HS and XT Low Input Custom Capture Library	None known.
SSel XT HS Human All Exon V6+UTRs	None known.

2.3 Other hazards

Hazards not otherwise classified

: End Repair-A Tailing Enzyme Mix	None known.
End Repair-A Tailing Buffer	None known.
T4 DNA Ligase	None known.
Ligation Buffer	None known.
Adaptor Oligo Mix	None known.
Forward Primer	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
Herculase II Fusion DNA Polymerase	None known.
5X Herculase II Reaction Buffer	None known.
SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.
SureSelect XT HS and XT Low Input Blocker Mix	None known.
SureSelect Fast Hybridization Buffer	None known.
SureSelect RNase Block	None known.
SureSelect Post- Capture Primer Mix	None known.
SureSelect XT HS Index Primer A03-H04	None known.
SSEL XT HS and XT Low Input Custom Capture Library	None known.
SSel XT HS Human All Exon V6+UTRs	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	End Repair-A Tailing Enzyme Mix	Mixture
		End Repair-A Tailing Buffer	Mixture
		T4 DNA Ligase	Mixture
		Ligation Buffer	Mixture
		Adaptor Oligo Mix	Mixture
		Forward Primer	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		5X Herculase II Reaction Buffer	Mixture
		SureSelect Binding Buffer	Mixture
		SureSelect Wash Buffer 1	Mixture
		SureSelect Wash Buffer 2	Mixture
		SureSelect XT HS and XT Low Input Blocker Mix	Mixture
		SureSelect Fast Hybridization Buffer	Mixture
		SureSelect RNase Block	Mixture
		SureSelect Post- Capture Primer Mix	Mixture
		SureSelect XT HS Index Primer A03-H04	Mixture
		SSEL XT HS and XT Low Input Custom Capture Library	Mixture

Section 3. Composition/information on ingredientsSSEL XT HS Human All Exon Mixture
V6+UTRs

Ingredient name	%	CAS number
End Repair-A Tailing Enzyme Mix Glycerol	≥50 - ≤75	56-81-5
End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Potassium chloride	≤3 ≤3	1185-53-1 7447-40-7
T4 DNA Ligase Glycerol	≥50 - ≤75	56-81-5
Ligation Buffer Polyethylene glycol Glycerol	≥10 - ≤25 ≥10 - ≤25	25322-68-3 56-81-5
Herculase II Fusion DNA Polymerase Glycerol	≥50 - ≤75	56-81-5
5X Herculase II Reaction Buffer Trometamol Ammonium sulphate Hexadecan-1-ol, ethoxylated	≤3 <2.5 ≤3	77-86-1 7783-20-2 9004-95-9
SureSelect Binding Buffer Sodium chloride	<10	7647-14-5
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	≤0.3	151-21-3
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	≤0.3	151-21-3
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	1185-53-1
SureSelect RNase Block Glycerol	≥50 - ≤75	56-81-5
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	≤3	56-81-5


Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

4.1 Description of necessary first aid measures

Eye contact	:  End Repair-A Tailing Enzyme Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	End Repair-A Tailing Buffer	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.
	T4 DNA Ligase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Ligation Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Adaptor 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.
	Forward 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.
	100 mM dNTP Mix (25 mM each dNTP)	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.
	Herculase II Fusion DNA Polymerase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	5X Herculase II Reaction Buffer	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 Binding Buffer	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 Wash Buffer 1	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 Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect XT HS and XT Low Input Blocker 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 Fast Hybridization	Immediately flush eyes with plenty of water,


Section 4. First aid measures

Buffer	occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SureSelect RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
SureSelect Post- Capture Primer 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 XT HS Index Primer A03-H04	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.
SSEL XT HS and XT Low Input Custom Capture Library	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.
SSel XT HS Human All Exon V6+UTRs	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	
: End Repair-A Tailing Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
End Repair-A Tailing Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
T4 DNA Ligase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ligation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-

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	contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Adaptor Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Forward Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
100 mM dNTP Mix (25 mM each dNTP)	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.
Herculase II Fusion DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
5X Herculase II Reaction Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect XT HS and XT Low Input Blocker Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Fast Hybridization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms

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		may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	SureSelect Post- Capture Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT HS Index Primer A03-H04	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SSEL XT HS and XT Low Input Custom Capture Library	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SSEL XT HS Human All Exon V6+UTRs	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:  End Repair-A Tailing Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	End Repair-A Tailing Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 DNA Ligase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Ligation Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Adaptor Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Forward Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	100 mM dNTP Mix (25 mM each dNTP)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Herculase II Fusion DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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5X Herculase II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect XT HS and XT Low Input Blocker Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Fast Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
SureSelect Post- Capture Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect XT HS Index Primer A03-H04	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SSEL XT HS and XT Low Input Custom Capture Library	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SSel XT HS Human All Exon V6+UTRs	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	
: End Repair-A Tailing Enzyme Mix	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
End Repair-A Tailing Buffer	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.
T4 DNA Ligase	Wash out mouth with water. Remove dentures if

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	<p>any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
Ligation Buffer	<p>Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
Adaptor Oligo Mix	<p>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.</p>
Forward Primer	<p>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.</p>
100 mM dNTP Mix (25 mM each dNTP)	<p>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.</p>
Herculase II Fusion DNA Polymerase	<p>Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless</p>

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	directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
5X Herculase II Reaction Buffer	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 Binding Buffer	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 Wash Buffer 1	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 Wash Buffer 2	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 XT HS and XT Low Input Blocker 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 Fast Hybridization Buffer	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 RNase Block	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting

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	occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SureSelect Post- Capture Primer 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 XT HS Index Primer A03-H04	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.
SSEL XT HS and XT Low Input Custom Capture Library	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.
SSel XT HS Human All Exon V6+UTRs	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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block	Causes eye irritation. No known significant effects or critical hazards. Causes eye irritation. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation.
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	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Inhalation	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	May cause respiratory irritation.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Skin contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input	No known significant effects or critical hazards.

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	Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Ingestion	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.


Over-exposure signs/symptoms

Eye contact	: End Repair-A Tailing Enzyme Mix	Adverse symptoms may include the following: irritation watering redness
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	Adverse symptoms may include the following: irritation watering redness
	Ligation Buffer	Adverse symptoms may include the following: irritation watering redness
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Herculase II Fusion DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
	5X Herculase II Reaction Buffer	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low	No specific data.


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	Input Blocker Mix	
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	SureSelect Post- Capture Primer Mix	No specific data.
	SureSelect XT HS Index Primer A03-H04	No specific data.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
	SSel XT HS Human All Exon V6+UTRs	No specific data.
Inhalation	: End Repair-A Tailing Enzyme Mix	No specific data.
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	SureSelect XT HS Index Primer A03-H04	No specific data.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
	SSel XT HS Human All Exon V6+UTRs	No specific data.
Skin contact	: End Repair-A Tailing Enzyme Mix	No specific data.
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low	No specific data.

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	Input Blocker Mix	
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	SureSelect XT HS Index Primer A03-H04	No specific data.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
	SSel XT HS Human All Exon V6+UTRs	No specific data.
Ingestion	:  End Repair-A Tailing Enzyme Mix	No specific data.
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post- Capture Primer Mix	No specific data.
	SureSelect XT HS Index Primer A03-H04	No specific data.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
	SSel XT HS Human All Exon V6+UTRs	No specific data.

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

Notes to physician	:  End Repair-A Tailing Enzyme Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	End Repair-A Tailing Buffer	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.
	T4 DNA Ligase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ligation Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adaptor Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Forward Primer	Treat symptomatically. Contact poison treatment

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100 mM dNTP Mix (25 mM each dNTP)	specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Herculase II Fusion DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
5X Herculase II Reaction Buffer	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.
SureSelect Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect XT HS and XT Low Input Blocker Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Fast Hybridization Buffer	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.
SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Post- Capture Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect XT HS Index Primer A03-H04	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SSEL XT HS and XT Low Input Custom Capture Library	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SSel XT HS Human All Exon V6+UTRs	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	
: End Repair-A Tailing Enzyme Mix	No specific treatment.
End Repair-A Tailing Buffer	No specific treatment.
T4 DNA Ligase	No specific treatment.
Ligation Buffer	No specific treatment.
Adaptor Oligo Mix	No specific treatment.
Forward Primer	No specific treatment.
100 mM dNTP Mix (25 mM each dNTP)	No specific treatment.
Herculase II Fusion DNA Polymerase	No specific treatment.
5X Herculase II Reaction Buffer	No specific treatment.
SureSelect Binding Buffer	No specific treatment.
SureSelect Wash Buffer 1	No specific treatment.
SureSelect Wash Buffer 2	No specific treatment.
SureSelect XT HS and XT Low	No specific treatment.

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	Input Blocker Mix	No specific treatment.
	SureSelect Fast Hybridization Buffer	No specific treatment.
	SureSelect RNase Block	No specific treatment.
	SureSelect Post- Capture Primer Mix	No specific treatment.
	SureSelect XT HS Index Primer A03-H04	No specific treatment.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific treatment.
	SSEL XT HS Human All Exon V6+UTRs	No specific treatment.
Protection of first-aiders	: End Repair-A Tailing Enzyme Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	End Repair-A Tailing Buffer	No action shall be taken involving any personal risk or without suitable training.
	T4 DNA Ligase	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Ligation Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Adaptor Oligo Mix	No action shall be taken involving any personal risk or without suitable training.
	Forward Primer	No action shall be taken involving any personal risk or without suitable training.
	100 mM dNTP Mix (25 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training.
	Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT HS and XT Low Input Blocker Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	SureSelect Post- Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT HS Index Primer A03-H04	No action shall be taken involving any personal risk or without suitable training.
	SSEL XT HS and XT Low Input	No action shall be taken involving any personal risk

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Custom Capture Library	or without suitable training.
SSel XT HS Human All Exon	No action shall be taken involving any personal risk
V6+UTRs	or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

End Repair-A Tailing Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
End Repair-A Tailing Buffer	Use an extinguishing agent suitable for the surrounding fire.
T4 DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
Adaptor Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.
Forward Primer	Use an extinguishing agent suitable for the surrounding fire.
100 mM dNTP Mix (25 mM each dNTP)	Use an extinguishing agent suitable for the surrounding fire.
Herculase II Fusion DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
5X Herculase II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
SureSelect XT HS and XT Low Input Blocker Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Fast Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Post- Capture Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect XT HS Index Primer A03-H04	Use an extinguishing agent suitable for the surrounding fire.
SSEL XT HS and XT Low Input Custom Capture Library	Use an extinguishing agent suitable for the surrounding fire.
SSel XT HS Human All Exon V6+UTRs	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

End Repair-A Tailing Enzyme Mix	None known.
End Repair-A Tailing Buffer	None known.
T4 DNA Ligase	None known.
Ligation Buffer	None known.
Adaptor Oligo Mix	None known.
Forward Primer	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
Herculase II Fusion DNA Polymerase	None known.
5X Herculase II Reaction Buffer	None known.

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SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.
SureSelect XT HS and XT Low Input Blocker Mix	None known.
SureSelect Fast Hybridization Buffer	None known.
SureSelect RNase Block	None known.
SureSelect Post- Capture Primer Mix	None known.
SureSelect XT HS Index Primer A03-H04	None known.
SSEL XT HS and XT Low Input Custom Capture Library	None known.
SSel XT HS Human All Exon V6+UTRs	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	:	End Repair-A Tailing Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		End Repair-A Tailing Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		T4 DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
		Ligation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		Adaptor Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		Forward Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
		100 mM dNTP Mix (25 mM each dNTP)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Herculase II Fusion DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
		5X Herculase II Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect XT HS and XT Low Input Blocker Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Fast Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Post- Capture Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect XT HS Index Primer A03-H04	In a fire or if heated, a pressure increase will occur and the container may burst.
		SSEL XT HS and XT Low Input Custom Capture Library	In a fire or if heated, a pressure increase will occur and the container may burst.
		SSel XT HS Human All Exon V6+UTRs	In a fire or if heated, a pressure increase will occur and the container may burst.

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Hazardous thermal decomposition products	: End Repair-A Tailing Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	End Repair-A Tailing Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	T4 DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	5X Herculase II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	SureSelect Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect Post- Capture Primer	No specific data.

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Mix	No specific data.
SureSelect XT HS Index Primer A03-H04	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SSEL XT HS and XT Low Input Custom Capture Library	
SSEL XT HS Human All Exon V6+UTRs	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

End Repair-A Tailing 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.
End Repair-A Tailing Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
T4 DNA Ligase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Ligation Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Adaptor 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.
Forward 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.
100 mM dNTP Mix (25 mM each dNTP)	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.
Herculase II Fusion DNA Polymerase	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.
5X Herculase II Reaction Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Binding Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

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	SureSelect XT HS and XT Low Input Blocker Mix	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Fast Hybridization Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect RNase Block	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 Post- Capture Primer 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 XT HS Index Primer A03-H04	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.
	SSEL XT HS and XT Low Input Custom Capture Library	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.
	SSEL XT HS Human All Exon V6+UTRs	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.
Special protective equipment for fire-fighters	: End Repair-A Tailing 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.
	End Repair-A Tailing Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	T4 DNA Ligase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Ligation Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Adaptor 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.
	Forward Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	100 mM dNTP Mix (25 mM each dNTP)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Herculase II Fusion DNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

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5X Herculase II Reaction Buffer	(SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Binding Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect XT HS and XT Low Input Blocker 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 Fast Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect Post- Capture Primer 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 XT HS Index Primer A03-H04	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SSEL XT HS and XT Low Input Custom Capture Library	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SSel XT HS Human All Exon V6+UTRs	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel :  End Repair-A Tailing 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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End Repair-A Tailing Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
T4 DNA Ligase	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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Ligation Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Adaptor 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 spilled material. Put on appropriate personal protective equipment.
Forward 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 spilled material. Put on appropriate personal protective equipment.
100 mM dNTP Mix (25 mM each dNTP)	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 spilled material. Put on appropriate personal protective equipment.
Herculase II Fusion DNA Polymerase	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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate

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SureSelect Wash Buffer 1	surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. 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 spilled material. Put on appropriate personal protective equipment.
SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect XT HS and XT Low Input Blocker 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 spilled material. Put on appropriate personal protective equipment.
SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect RNase Block	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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
SureSelect Post- Capture Primer 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 spilled material. Put on appropriate personal protective equipment.
SureSelect XT HS Index Primer A03-H04	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 spilled material. Put on appropriate personal protective equipment.
SSEL XT HS and XT Low Input Custom Capture Library	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 spilled material. Put on appropriate personal protective equipment.
SSEL XT HS Human All Exon V6+UTRs	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

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SureSelect Post- Capture Primer Mix

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized 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 XT HS Index Primer A03-H04

If specialized 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".

SSEL XT HS and XT Low Input Custom Capture Library

If specialized 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".

SSEL XT HS Human All Exon V6+UTRs

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

6.2 Environmental precautions

: End Repair-A Tailing Enzyme Mix

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

End Repair-A Tailing Buffer

Avoid dispersal of spilled 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).

T4 DNA Ligase

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

Ligation Buffer

Avoid dispersal of spilled 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).

Adaptor Oligo Mix

Avoid dispersal of spilled 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).

Forward Primer

Avoid dispersal of spilled 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).

100 mM dNTP Mix (25 mM each dNTP)

Avoid dispersal of spilled 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).

Herculase II Fusion DNA Polymerase

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

Section 6. Accidental release measures

5X Herculase II Reaction Buffer	<p>caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled 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).</p>
SureSelect Binding Buffer	<p>Avoid dispersal of spilled 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).</p>
SureSelect Wash Buffer 1	<p>Avoid dispersal of spilled 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).</p>
SureSelect Wash Buffer 2	<p>Avoid dispersal of spilled 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).</p>
SureSelect XT HS and XT Low Input Blocker Mix	<p>Avoid dispersal of spilled 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).</p>
SureSelect Fast Hybridization Buffer	<p>Avoid dispersal of spilled 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).</p>
SureSelect RNase Block	<p>Avoid dispersal of spilled 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).</p>
SureSelect Post- Capture Primer Mix	<p>Avoid dispersal of spilled 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).</p>
SureSelect XT HS Index Primer A03-H04	<p>Avoid dispersal of spilled 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).</p>
SSEL XT HS and XT Low Input Custom Capture Library	<p>Avoid dispersal of spilled 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).</p>
SSEL XT HS Human All Exon V6+UTRs	<p>Avoid dispersal of spilled 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).</p>

Section 6. Accidental release measures

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: End Repair-A Tailing 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.
	End Repair-A Tailing Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	T4 DNA Ligase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Ligation Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Adaptor 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.
	Forward 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.
	100 mM dNTP Mix (25 mM each dNTP)	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.
	Herculase II Fusion DNA Polymerase	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.
	5X Herculase II Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureSelect Binding Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

Section 6. Accidental release measures

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect XT HS and XT Low Input Blocker 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 Fast Hybridization Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect RNase Block	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 Post- Capture Primer 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 XT HS Index Primer A03-H04	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.
SSEL XT HS and XT Low Input Custom Capture Library	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.
SSel XT HS Human All Exon V6+UTRs	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

7.1 Precautions for safe handling

Protective measures	: End Repair-A Tailing Enzyme Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	End Repair-A Tailing Buffer	Put on appropriate personal protective equipment (see Section 8).
	T4 DNA Ligase	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Ligation Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Adaptor Oligo Mix	Put on appropriate personal protective equipment (see Section 8).
	Forward Primer	Put on appropriate personal protective equipment (see Section 8).
	100 mM dNTP Mix (25 mM each dNTP)	Put on appropriate personal protective equipment (see Section 8).
	Herculase II Fusion DNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	5X Herculase II Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	SureSelect XT HS and XT Low Input Blocker Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Fast Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or

Section 7. Handling and storage

Advice on general occupational hygiene

<p>SureSelect Post- Capture Primer Mix</p> <p>SureSelect XT HS Index Primer A03-H04</p> <p>SSEL XT HS and XT Low Input Custom Capture Library</p> <p>SSel XT HS Human All Exon V6+UTRs</p>	<p>: End Repair-A Tailing Enzyme Mix</p>	<p>mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>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.</p>
<p>End Repair-A Tailing Buffer</p>		<p>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.</p>
<p>T4 DNA Ligase</p>		<p>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.</p>
<p>Ligation Buffer</p>		<p>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.</p>
<p>Adaptor Oligo Mix</p>		<p>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.</p>
<p>Forward Primer</p>		<p>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.</p>
<p>100 mM dNTP Mix (25 mM each dNTP)</p>		<p>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</p>


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Herculase II Fusion DNA Polymerase	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
5X Herculase II Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Binding Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect XT HS and XT Low Input Blocker 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 Fast Hybridization Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect RNase Block	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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SureSelect Post- Capture Primer 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 XT HS Index Primer A03-H04	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.
SSEL XT HS and XT Low Input Custom Capture Library	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.
SSel XT HS Human All Exon V6+UTRs	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

:  End Repair-A Tailing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
End Repair-A Tailing Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
T4 DNA Ligase	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

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Ligation Buffer

to prevent leakage. Do not store in unlabeled 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

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

100 mM dNTP Mix (25 mM each dNTP)

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

Herculase II Fusion DNA Polymerase

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

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5X Herculase II Reaction Buffer	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Binding Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect XT HS and XT Low Input Blocker 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Fast Hybridization Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

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SureSelect RNase Block	<p>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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect Post- Capture Primer Mix	<p>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SureSelect XT HS Index Primer A03-H04	<p>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SSEL XT HS and XT Low Input Custom Capture Library	<p>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
SSEL XT HS Human All Exon V6+UTRs	<p>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</p>

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to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

End Repair-A Tailing Enzyme Mix	Industrial applications, Professional applications.
End Repair-A Tailing Buffer	Industrial applications, Professional applications.
T4 DNA Ligase	Industrial applications, Professional applications.
Ligation Buffer	Industrial applications, Professional applications.
Adaptor Oligo Mix	Industrial applications, Professional applications.
Forward Primer	Industrial applications, Professional applications.
100 mM dNTP Mix (25 mM each dNTP)	Industrial applications, Professional applications.
Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.
5X Herculase II Reaction Buffer	Industrial applications, Professional applications.
SureSelect Binding Buffer	Industrial applications, Professional applications.
SureSelect Wash Buffer 1	Industrial applications, Professional applications.
SureSelect Wash Buffer 2	Industrial applications, Professional applications.
SureSelect XT HS and XT Low Input Blocker Mix	Industrial applications, Professional applications.
SureSelect Fast Hybridization Buffer	Industrial applications, Professional applications.
SureSelect RNase Block	Industrial applications, Professional applications.
SureSelect Post- Capture Primer Mix	Industrial applications, Professional applications.
SureSelect XT HS Index Primer A03-H04	Industrial applications, Professional applications.
SSEL XT HS and XT Low Input Custom Capture Library	Industrial applications, Professional applications.
SSEL XT HS Human All Exon V6+UTRs	Industrial applications, Professional applications.

Industrial sector specific solutions

End Repair-A Tailing Enzyme Mix	Not applicable.
End Repair-A Tailing Buffer	Not applicable.
T4 DNA Ligase	Not applicable.
Ligation Buffer	Not applicable.
Adaptor Oligo Mix	Not applicable.
Forward Primer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Post- Capture Primer Mix	Not applicable.
SureSelect XT HS Index Primer A03-H04	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.

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SSel XT HS Human All Exon
V6+UTRs

Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<p>End Repair-A Tailing Enzyme Mix Glycerol</p>	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p>
<p>End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Potassium chloride</p>	<p>None. None.</p>
<p>T4 DNA Ligase Glycerol</p>	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p>
<p>Ligation Buffer Polyethylene glycol Glycerol</p>	<p>AIHA WEEL (United States, 5/2018). TWA: 10 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p>
<p>Herculase II Fusion DNA Polymerase Glycerol</p>	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p>
<p>5X Herculase II Reaction Buffer Trometamol</p>	<p>None.</p>

Section 8. Exposure controls/personal protection

Ammonium sulphate Hexadecan-1-ol, ethoxylated	None. None.
SureSelect Binding Buffer Sodium chloride	None.
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	None.
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	None.
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None.
SureSelect RNase Block Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust

8.2 Exposure controls

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: chemical splash goggles.

Skin protection

Section 9. Physical and chemical properties

	Polymerase	
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSel XT HS Human All Exon V6+UTRs	Not available.
Odor	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSel XT HS Human All Exon V6+UTRs	Not available.
Odor threshold	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.

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	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSel XT HS Human All Exon V6+UTRs	Not available.
pH	: End Repair-A Tailing Enzyme Mix	6.5
	End Repair-A Tailing Buffer	8
	T4 DNA Ligase	7.5
	Ligation Buffer	8
	Adaptor Oligo Mix	7.5
	Forward Primer	7.5
	100 mM dNTP Mix (25 mM each dNTP)	7.5
	Herculase II Fusion DNA Polymerase	7.7 to 8.7
	5X Herculase II Reaction Buffer	9.5 to 10.5
	SureSelect Binding Buffer	7.5
	SureSelect Wash Buffer 1	7
	SureSelect Wash Buffer 2	7
	SureSelect XT HS and XT Low Input Blocker Mix	7.5
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	7.6
	SureSelect Post- Capture Primer Mix	7.5
	SureSelect XT HS Index Primer A03-H04	7.5
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSel XT HS Human All Exon V6+UTRs	Not available.
Melting point	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	0°C (32°F)
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	0°C (32°F)
	Forward Primer	0°C (32°F)
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	0°C (32°F)
	SureSelect Wash Buffer 2	0°C (32°F)
	SureSelect XT HS and XT Low Input Blocker Mix	0°C (32°F)
	SureSelect Fast Hybridization	Not available.

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	Buffer	
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	0°C (32°F)
	SureSelect XT HS Index Primer A03-H04	0°C (32°F)
	SSEL XT HS and XT Low Input Custom Capture Library	0°C (32°F)
	SSEL XT HS Human All Exon V6+UTRs	0°C (32°F)
Boiling point	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	100°C (212°F)
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	100°C (212°F)
	Forward Primer	100°C (212°F)
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	100°C (212°F)
	SureSelect Wash Buffer 2	100°C (212°F)
	SureSelect XT HS and XT Low Input Blocker Mix	100°C (212°F)
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	100°C (212°F)
	SureSelect XT HS Index Primer A03-H04	100°C (212°F)
	SSEL XT HS and XT Low Input Custom Capture Library	100°C (212°F)
	SSEL XT HS Human All Exon V6+UTRs	100°C (212°F)
Flash point	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.

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	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	Ssel XT HS Human All Exon V6+UTRs	Not available.
Evaporation rate	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	Ssel XT HS Human All Exon V6+UTRs	Not available.
Flammability (solid, gas)	: End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post- Capture Primer Mix	Not applicable.
	SureSelect XT HS Index Primer A03-H04	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.

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	SSEL XT HS Human All Exon V6+UTRs	Not applicable.
Lower and upper explosive (flammable) limits	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSEL XT HS Human All Exon V6+UTRs	Not available.
Vapor pressure	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSEL XT HS Human All Exon V6+UTRs	Not available.

Vapor density :

Section 9. Physical and chemical properties

End Repair-A Tailing Enzyme Mix	Not available.
End Repair-A Tailing Buffer	Not available.
T4 DNA Ligase	Not available.
Ligation Buffer	Not available.
Adaptor Oligo Mix	Not available.
Forward Primer	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
Herculase II Fusion DNA Polymerase	Not available.
5X Herculase II Reaction Buffer	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Not available.
SureSelect RNase Block	Not available.
SureSelect Post- Capture Primer Mix	Not available.
SureSelect XT HS Index Primer A03-H04	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSel XT HS Human All Exon V6+UTRs	Not available.

Relative density :

End Repair-A Tailing Enzyme Mix	Not available.
End Repair-A Tailing Buffer	Not available.
T4 DNA Ligase	Not available.
Ligation Buffer	Not available.
Adaptor Oligo Mix	Not available.
Forward Primer	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
Herculase II Fusion DNA Polymerase	Not available.
5X Herculase II Reaction Buffer	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Not available.
SureSelect RNase Block	Not available.
SureSelect Post- Capture Primer Mix	Not available.
SureSelect XT HS Index Primer A03-H04	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSel XT HS Human All Exon V6+UTRs	Not available.

Section 9. Physical and chemical properties

Solubility	:  End Repair-A Tailing Enzyme Mix	Soluble in the following materials: cold water and hot water.
	End Repair-A Tailing Buffer	Easily soluble in the following materials: cold water and hot water.
	T4 DNA Ligase	Soluble in the following materials: cold water and hot water.
	Ligation Buffer	Soluble in the following materials: cold water and hot water.
	Adaptor Oligo Mix	Easily soluble in the following materials: cold water and hot water.
	Forward Primer	Easily soluble in the following materials: cold water and hot water.
	100 mM dNTP Mix (25 mM each dNTP)	Easily soluble in the following materials: cold water and hot water.
	Herculase II Fusion DNA Polymerase	Soluble in the following materials: cold water and hot water.
	5X Herculase II Reaction Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect Binding Buffer	Easily soluble in the following materials: cold water and hot water.
	SureSelect Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
	SureSelect Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT HS and XT Low Input Blocker Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect Fast Hybridization Buffer	Soluble in the following materials: cold water and hot water.
	SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
	SureSelect Post- Capture Primer Mix	Easily soluble in the following materials: cold water and hot water.
	SureSelect XT HS Index Primer A03-H04	Easily soluble in the following materials: cold water and hot water.
	SSEL XT HS and XT Low Input Custom Capture Library	Easily soluble in the following materials: cold water and hot water.
	SSEL XT HS Human All Exon V6+UTRs	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:  End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.

Section 9. Physical and chemical properties

	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	Ssel XT HS Human All Exon V6+UTRs	Not available.
Auto-ignition temperature	End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	Ssel XT HS Human All Exon V6+UTRs	Not available.
Decomposition temperature	End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.

Section 9. Physical and chemical properties

Viscosity	SSEL XT HS Human All Exon V6+UTRs	Not available.
	End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post- Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSEL XT HS Human All Exon V6+UTRs	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	End Repair-A Tailing Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
	End Repair-A Tailing Buffer	No specific test data related to reactivity available for this product or its ingredients.
	T4 DNA Ligase	No specific test data related to reactivity available for this product or its ingredients.
	Ligation Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Adaptor Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.
	Forward Primer	No specific test data related to reactivity available for this product or its ingredients.
	100 mM dNTP Mix (25 mM each dNTP)	No specific test data related to reactivity available for this product or its ingredients.
	Herculase II Fusion DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
	5X Herculase II Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect XT HS and XT Low Input Blocker Mix	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect Fast Hybridization	No specific test data related to reactivity available

Section 10. Stability and reactivity

Buffer	for this product or its ingredients.
SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Post- Capture Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
SureSelect XT HS Index Primer A03-H04	No specific test data related to reactivity available for this product or its ingredients.
SSEL XT HS and XT Low Input Custom Capture Library	No specific test data related to reactivity available for this product or its ingredients.
SSel XT HS Human All Exon V6+UTRs	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

End Repair-A Tailing Enzyme Mix	The product is stable.
End Repair-A Tailing Buffer	The product is stable.
T4 DNA Ligase	The product is stable.
Ligation Buffer	The product is stable.
Adaptor Oligo Mix	The product is stable.
Forward Primer	The product is stable.
100 mM dNTP Mix (25 mM each dNTP)	The product is stable.
Herculase II Fusion DNA Polymerase	The product is stable.
5X Herculase II Reaction Buffer	The product is stable.
SureSelect Binding Buffer	The product is stable.
SureSelect Wash Buffer 1	The product is stable.
SureSelect Wash Buffer 2	The product is stable.
SureSelect XT HS and XT Low Input Blocker Mix	The product is stable.
SureSelect Fast Hybridization Buffer	The product is stable.
SureSelect RNase Block	The product is stable.
SureSelect Post- Capture Primer Mix	The product is stable.
SureSelect XT HS Index Primer A03-H04	The product is stable.
SSEL XT HS and XT Low Input Custom Capture Library	The product is stable.
SSel XT HS Human All Exon V6+UTRs	The product is stable.

10.3 Possibility of hazardous reactions

End Repair-A Tailing Enzyme Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
End Repair-A Tailing Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
T4 DNA Ligase	Under normal conditions of storage and use, hazardous reactions will not occur.
Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
Forward Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
100 mM dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous reactions will not occur.
Herculase II Fusion DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT HS and XT Low Input Blocker Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Post- Capture Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT HS Index Primer A03-H04	Under normal conditions of storage and use, hazardous reactions will not occur.
SSEL XT HS and XT Low Input Custom Capture Library	Under normal conditions of storage and use, hazardous reactions will not occur.
SSel XT HS Human All Exon V6+UTRs	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		Adaptor Oligo Mix	No specific data.
		Forward Primer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Post- Capture Primer Mix	No specific data.
		SureSelect XT HS Index Primer A03-H04	No specific data.
		SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
		SSel XT HS Human All Exon V6+UTRs	No specific data.

10.5 Incompatible materials	:	End Repair-A Tailing Enzyme Mix	May react or be incompatible with oxidizing materials.
		End Repair-A Tailing Buffer	May react or be incompatible with oxidizing materials.
		T4 DNA Ligase	May react or be incompatible with oxidizing materials.
		Ligation Buffer	May react or be incompatible with oxidizing materials.
		Adaptor Oligo Mix	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Forward Primer	materials. May react or be incompatible with oxidizing materials.
100 mM dNTP Mix (25 mM each dNTP)	May react or be incompatible with oxidizing materials.
Herculase II Fusion DNA Polymerase	May react or be incompatible with oxidizing materials.
5X Herculase II Reaction Buffer	May react or be incompatible with oxidizing materials.
SureSelect Binding Buffer	May react or be incompatible with oxidizing materials.
SureSelect Wash Buffer 1	May react or be incompatible with oxidizing materials.
SureSelect Wash Buffer 2	May react or be incompatible with oxidizing materials.
SureSelect XT HS and XT Low Input Blocker Mix	May react or be incompatible with oxidizing materials.
SureSelect Fast Hybridization Buffer	May react or be incompatible with oxidizing materials.
SureSelect RNase Block	May react or be incompatible with oxidizing materials.
SureSelect Post- Capture Primer Mix	May react or be incompatible with oxidizing materials.
SureSelect XT HS Index Primer A03-H04	May react or be incompatible with oxidizing materials.
SSEL XT HS and XT Low Input Custom Capture Library	May react or be incompatible with oxidizing materials.
SSel XT HS Human All Exon V6+UTRs	May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products

: End Repair-A Tailing Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
End Repair-A Tailing Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
T4 DNA Ligase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Forward Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
100 mM dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Herculase II Fusion DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 10. Stability and reactivity

SureSelect Wash Buffer 1	produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect XT HS and XT Low Input Blocker Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Post- Capture Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect XT HS Index Primer A03-H04	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SSEL XT HS and XT Low Input Custom Capture Library	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SSEL XT HS Human All Exon V6+UTRs	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
End Repair-A Tailing Enzyme Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
End Repair-A Tailing Buffer Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
T4 DNA Ligase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Buffer Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Herculase II Fusion DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
5X Herculase II Reaction Buffer Trometamol	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 5000 mg/kg	- -
Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
Hexadecan-1-ol, ethoxylated	LD50 Oral	Rat	2500 mg/kg	-

Section 11. Toxicological information

SureSelect Binding Buffer Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Repair-A Tailing Enzyme Mix Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
End Repair-A Tailing Buffer Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
T4 DNA Ligase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Ligation Buffer Polyethylene glycol Glycerol	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	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Herculase II Fusion DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Section 11. Toxicological information

5X Herculanase II Reaction Buffer Trometamol	Skin - Moderate irritant	Rabbit	-	25 Percent 500 milligrams	-
	Skin - Severe irritant	Rabbit	-		-
SureSelect Binding Buffer Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams 10 milligrams 24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 Micrograms 24 hours 100 milligrams 10 milligrams 24 hours 25 milligrams 24 hours 25 milligrams 24 hours 50 milligrams 24 hours 25 milligrams	-
	Eyes - Moderate irritant	Rabbit	-		-
	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Mild irritant	Guinea pig	-		-
	Skin - Moderate irritant	Mouse	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-		-
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 Micrograms 24 hours 100 milligrams 10 milligrams 24 hours 25 milligrams 24 hours 25 milligrams 24 hours 50 milligrams 24 hours 25 milligrams	-
	Eyes - Moderate irritant	Rabbit	-		-
	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Mild irritant	Guinea pig	-		-
	Skin - Moderate irritant	Mouse	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-		-
SureSelect RNase Block Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams 24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-		-
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams 24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-		-

Sensitization

Not available.

Section 11. Toxicological information

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)

Name	Category	Route of exposure	Target organs
End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
Ligation Buffer Polyethylene glycol	Category 3	Not applicable.	Respiratory tract irritation
5X Herculase II Reaction Buffer Trometamol	Category 3	Not applicable.	Respiratory tract irritation
Hexadecan-1-ol, ethoxylated	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

End Repair-A Tailing Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
End Repair-A Tailing Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
T4 DNA Ligase	Routes of entry anticipated: Oral, Dermal, Inhalation.
Ligation Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
Adaptor Oligo Mix	Not available.
Forward Primer	Not available.
100 mM dNTP Mix (25 mM each)	Not available.

Section 11. Toxicological information

dNTP)	
Herculase II Fusion DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
5X Herculase II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect Post- Capture Primer Mix	Not available.
SureSelect XT HS Index Primer A03-H04	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
Ssel XT HS Human All Exon V6+UTRs	Not available.

Potential acute health effects

Eye contact

: End Repair-A Tailing Enzyme Mix	Causes eye irritation.
End Repair-A Tailing Buffer	No known significant effects or critical hazards.
T4 DNA Ligase	Causes eye irritation.
Ligation Buffer	Causes eye irritation.
Adaptor Oligo Mix	No known significant effects or critical hazards.
Forward Primer	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	Causes eye irritation.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	Causes eye irritation.
SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
Ssel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.

Inhalation

: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
End Repair-A Tailing Buffer	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
Ligation Buffer	May cause respiratory irritation.
Adaptor Oligo Mix	No known significant effects or critical hazards.
Forward Primer	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.

Section 11. Toxicological information

	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Skin contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Ingestion	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.

Section 11. Toxicological information

SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSEL XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	End Repair-A Tailing Enzyme Mix	Adverse symptoms may include the following: irritation watering redness
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	Adverse symptoms may include the following: irritation watering redness
		Ligation Buffer	Adverse symptoms may include the following: irritation watering redness
		Adaptor Oligo Mix	No specific data.
		Forward Primer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
		5X Herculase II Reaction Buffer	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	No specific data.
		SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
		SureSelect Post- Capture Primer Mix	No specific data.
		SureSelect XT HS Index Primer A03-H04	No specific data.
		SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
		SSEL XT HS Human All Exon V6+UTRs	No specific data.

Section 11. Toxicological information

Inhalation

End Repair-A Tailing Enzyme Mix	No specific data.
End Repair-A Tailing Buffer	No specific data.
T4 DNA Ligase	No specific data.
Ligation Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing
Adaptor Oligo Mix	No specific data.
Forward Primer	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
5X Herculase II Reaction Buffer	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
SureSelect Fast Hybridization Buffer	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Post- Capture Primer Mix	No specific data.
SureSelect XT HS Index Primer A03-H04	No specific data.
SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
SSel XT HS Human All Exon V6+UTRs	No specific data.

Skin contact

End Repair-A Tailing Enzyme Mix	No specific data.
End Repair-A Tailing Buffer	No specific data.
T4 DNA Ligase	No specific data.
Ligation Buffer	No specific data.
Adaptor Oligo Mix	No specific data.
Forward Primer	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
5X Herculase II Reaction Buffer	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
SureSelect Fast Hybridization Buffer	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Post- Capture Primer Mix	No specific data.
SureSelect XT HS Index Primer A03-H04	No specific data.
SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
SSel XT HS Human All Exon V6+UTRs	No specific data.

Section 11. Toxicological information

	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Carcinogenicity	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSel XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Mutagenicity	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.

Section 11. Toxicological information

	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Teratogenicity	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.
Developmental effects	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post- Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS Human All Exon V6+UTRs	No known significant effects or critical hazards.

Section 11. Toxicological information

SureSelect Binding Buffer SureSelect Binding Buffer Sodium chloride	51369.9 3000	N/A N/A	N/A N/A	N/A N/A	N/A N/A
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
SureSelect RNase Block Glycerol	12600	N/A	N/A	N/A	N/A
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	12600	N/A	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
End Repair-A Tailing Enzyme Mix Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
End Repair-A Tailing Buffer Potassium chloride	Acute EC50 1337000 µg/l Fresh water Acute EC50 9.24 g/L Fresh water Acute EC50 141.46 mg/l Fresh water Acute LC50 12.92 mg/l Fresh water Acute LC50 880 mg/l Fresh water	Algae - Navicula seminulum Algae - Desmodesmus subspicatus Daphnia - Daphnia magna Crustaceans - Pseudosida ramosa - Neonate Fish - Pimephales promelas	96 hours 72 hours 48 hours 48 hours 96 hours
T4 DNA Ligase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ligation Buffer Polyethylene glycol Glycerol	Acute LC50 >1000000 µg/l Fresh water Acute LC50 54000 mg/l Fresh water	Fish - Salmo salar - Parr Fish - Oncorhynchus mykiss	96 hours 96 hours
Herculase II Fusion DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
5X Herculase II Reaction Buffer Trometamol Ammonium sulphate	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water Acute LC50 2.6 mg/l Fresh water Acute LC50 14000 µg/l Fresh water Acute LC50 68 µg/l Fresh water	Daphnia Daphnia Crustaceans - Ceriodaphnia dubia - Young Daphnia - Daphnia magna - Young Fish - Oncorhynchus gorbuscha - Alevin	48 hours 48 hours 48 hours 48 hours 96 hours

Section 12. Ecological information

Hexadecan-1-ol, ethoxylated	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
	Chronic NOEC 143 µg/l Marine water Acute LC50 330000 to 1000000 µg/l Marine water	Fish - Salmo salar - Post-smolt Crustaceans - Crangon crangon - Adult	5 weeks 48 hours
SureSelect Binding Buffer Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water	Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 96 hours 3 weeks
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks
	Acute EC50 1200 µg/l Marine water Acute LC50 900 µg/l Marine water	Algae - Skeletonema costatum Crustaceans - Artemia salina - Adult	96 hours 48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water	Fish - Cirrhinus mrigala - Larvae Algae - Ulva fasciata - Zoea Crustaceans - Pseudosida ramosa - Neonate	96 hours 96 hours 21 days
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days
	Acute EC50 1200 µg/l Marine water Acute LC50 900 µg/l Marine water	Algae - Skeletonema costatum Crustaceans - Artemia salina - Adult	96 hours 48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
SureSelect RNase Block Glycerol	Acute LC50 590 µg/l Fresh water Chronic NOEC 1.25 mg/l Marine water Chronic NOEC 1 mg/l Fresh water	Fish - Cirrhinus mrigala - Larvae Algae - Ulva fasciata - Zoea Crustaceans - Pseudosida ramosa - Neonate	96 hours 96 hours 21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days
	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

[12.2 Persistence and degradability](#)

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
End Repair-A Tailing Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
T4 DNA Ligase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Ligation Buffer Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Herculase II Fusion DNA Polymerase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SureSelect RNase Block Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
End Repair-A Tailing Buffer Potassium chloride	-	-	Readily
5X Herculase II Reaction Buffer Ammonium sulphate	-	-	Readily

[12.3 Bioaccumulative potential](#)

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
End Repair-A Tailing Enzyme Mix Glycerol	-1.76	-	low
End Repair-A Tailing Buffer Potassium chloride	-0.46	-	low
T4 DNA Ligase Glycerol	-1.76	-	low
Ligation Buffer Polyethylene glycol Glycerol	- -1.76	3.2 -	low low
Herculase II Fusion DNA Polymerase Glycerol	-1.76	-	low
5X Herculase II Reaction Buffer Trometamol Ammonium sulphate	-1.56 -5.1	- -	low low
SureSelect Wash Buffer 1 Sodium dodecyl sulphate	-2.03	-	low
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	-2.03	-	low
SureSelect RNase Block Glycerol	-1.76	-	low
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	-1.76	-	low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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. Care should be taken when handling emptied containers that have not been

Section 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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.

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

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
Clean Water Act (CWA) 311: Edetic acid; Potassium hydroxide

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Section 15. Regulatory information

Classification	: End Repair-A Tailing Enzyme Mix	EYE IRRITATION - Category 2B
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	EYE IRRITATION - Category 2B
	Ligation Buffer	EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	EYE IRRITATION - Category 2B
	5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	EYE IRRITATION - Category 2B
	SureSelect Post- Capture Primer Mix	Not applicable.
	SureSelect XT HS Index Primer A03-H04	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
	SSEL XT HS Human All Exon V6+UTRs	Not applicable.

Composition/information on ingredients

Name	%	Classification
End Repair-A Tailing Enzyme Mix		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
End Repair-A Tailing Buffer		
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Potassium chloride	≤3	EYE IRRITATION - Category 2A
T4 DNA Ligase		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
Ligation Buffer		
Polyethylene glycol	≥10 - ≤25	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2A
Herculase II Fusion DNA Polymerase		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
5X Herculase II Reaction Buffer		
Trometamol	≤3	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

Section 15. Regulatory information

Hexadecan-1-ol, ethoxylated	≤3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SureSelect Binding Buffer Sodium chloride	<10	EYE IRRITATION - Category 2A
SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SureSelect RNase Block Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	≤3	EYE IRRITATION - Category 2A

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	5X Herculase II Reaction Buffer Ammonium sulphate	7783-20-2	<2.5
Supplier notification	5X Herculase II Reaction Buffer Ammonium sulphate	7783-20-2	<2.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 15. Regulatory information

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

History

Date of issue	: 01/28/2019
Date of previous issue	: 10/30/2017
Version	: 2

Key to abbreviations

: 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)
: N/A = Not available
: UN = United Nations

Procedure used to derive the classification

Classification	Justification
End Repair-A Tailing Enzyme Mix EYE IRRITATION - Category 2B	Calculation method
T4 DNA Ligase EYE IRRITATION - Category 2B	Calculation method
Ligation Buffer EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method Calculation method
Herculase II Fusion DNA Polymerase EYE IRRITATION - Category 2B	Calculation method
SureSelect RNase Block EYE IRRITATION - Category 2B	Calculation method

Section 16. Other information

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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