Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

SureSelect XT Low Input Reagent kit, Index 97-192 + SSel Cancer All-In-One Solid Tumor Panel, 96rxn, Part Number G9708S

Section 1. Identification

1.1 Product identifier

Product name : SureSelect XT Low Input Reagent kit, Index 97-192 + SSel Cancer All-In-One Solid Tumor Panel, 96rxn, Part Number G9708S

Part no. (chemical kit) : G9708S

Part no. :

SureSelect XT HS and XT Low Input Library Prep Kit for ILM (Pre PCR), 96 Rxn	5500-0140
End Repair-A Tailing Enzyme Mix	5190-6435
End Repair-A Tailing Buffer	5190-6436
T4 DNA Ligase	5190-6437
Ligation Buffer	5190-6438
Adaptor Oligo Mix	5190-6439
Forward Primer	5190-6440
SureSelect XT HS and XT Low Input Library Prep Kit for ILM (Pre PCR), 96 Rxn / SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxn	5500-0140 / 5190-9686
100 mM dNTP Mix (25 mM each dNTP)	200418-51
Herculase II Fusion DNA Polymerase	5600-3761
5X Herculase II Reaction Buffer	600675-52
SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 1 (Post PCR), 96 Rxn	5190-9687
SureSelect Binding Buffer	5190-9734
SureSelect Wash Buffer 1	5190-4408
SureSelect Wash Buffer 2	5190-4409
SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxn	5190-9686
SureSelect XT HS and XT Low Input Blocker Mix	5190-9534
SureSelect Fast Hybridization Buffer	5190-7330
SureSelect RNase Block	5972-3700
SureSelect Post-Capture Primer Mix	5190-9732
100 mM dNTP Mix (25mM each dNTP)	200418-51
Herculase II Fusion DNA Polymerase	5600-3761
5X Herculase II Reaction Buffer	600675-52
SureSelect XT Low Input Index Primers 97-192 for ILM (Pre PCR)	5190-6445
SSEL Low Input Index Primer, Plate 2, ILM	5190-6443
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor, 96 Reactions	5191-5670
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor, 96 Reactions	5191-5670

Validation date : 4/4/2022

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.

Section 1. Identification

End Repair-A Tailing Enzyme Mix	0.512 ml (96 reactions)
End Repair-A Tailing Buffer	2.048 ml (96 reactions)
T4 DNA Ligase	0.256 ml (96 reactions)
Ligation Buffer	2.944 ml (96 reactions)
Adaptor Oligo Mix	0.64 - 0.7 ml (96 reactions)
Forward Primer	0.256 ml (96 reactions)
100 mM dNTP Mix (25 mM each dNTP)	0.1 ml
Herculase II Fusion DNA Polymerase	0.14 ml (96 reactions)
5X Herculase II Reaction Buffer	1.5 ml
SureSelect Binding Buffer	93 ml
SureSelect Wash Buffer 1	48 ml
SureSelect Wash Buffer 2	144 ml
SureSelect XT HS and XT Low Input Blocker Mix	0.64 ml (96 reactions)
SureSelect Fast Hybridization Buffer	0.918 ml
SureSelect RNase Block	0.08 ml
SureSelect Post-Capture Primer Mix	0.14 ml (96 reactions)
SSEL Low Input Index Primer, Plate 2, ILM	96 x 0.01 ml
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor, 96 Reactions	0.2 ml

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 :

End Repair-A Tailing Enzyme Mix	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
End Repair-A Tailing 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.
T4 DNA Ligase	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Ligation Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Adaptor Oligo 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.
Forward Primer	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.

Section 2. Hazards identification

100 mM dNTP Mix (25 mM each dNTP)	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.
Herculase II Fusion DNA Polymerase	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
5X Herculase II Reaction 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 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.
SSEL Low Input Index Primer, Plate 2, ILM	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 Cancer All-In-One	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

Section 2. Hazards identification

	Solid Tumor	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.

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

Herculase II Fusion DNA Polymerase

H320 EYE IRRITATION - Category 2B

SureSelect RNase Block

H320 EYE IRRITATION - Category 2B

100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 5.4%
SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 31.3%

2.2 GHS label elements

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.
SSEL Low Input Index Primer, Plate 2, ILM	No signal word.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No signal word.

Section 2. Hazards identification

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.
		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.
		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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No known significant effects or critical hazards.
Precautionary statements			
Prevention	:	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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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 advice or 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

Section 2. Hazards identification

		contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	Ligation Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	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 advice or 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 advice or attention.
	SureSelect Post-Capture Primer Mix	Not applicable.
	SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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	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	Not applicable.

Section 2. Hazards identification

		Mix	
		SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not applicable.
Disposal	:	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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	None known.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	None known.

2.3 Other hazards

Section 2. Hazards identification

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.
SSEL Low Input Index Primer, Plate 2, ILM	None known.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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
SSEL Low Input Index Primer, Plate 2, ILM	Mixture
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Mixture

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
End Repair-A Tailing Enzyme Mix		
Glycerol	≥50 - ≤75	56-81-5
End Repair-A Tailing Buffer		
Potassium chloride	≤3	7447-40-7
T4 DNA Ligase		
Glycerol	≥50 - ≤75	56-81-5
Ligation Buffer		
Polyethylene glycol	≥10 - ≤25	25322-68-3
Glycerol	≥10 - ≤25	56-81-5
Herculase II Fusion DNA Polymerase		
Glycerol	≥50 - ≤75	56-81-5
5X Herculase II Reaction Buffer		
Trometamol	≤3	77-86-1
Ammonium sulphate	≤3	7783-20-2
Hexadecan-1-ol, ethoxylated	<2.5	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 RNase Block		
Glycerol	≥50 - ≤75	56-81-5
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor		
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 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.

Section 4. First aid measures

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 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 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.
SSEL Low Input Index Primer, Plate 2, ILM	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	Immediately flush eyes with plenty of water,

Section 4. First aid measures

		Cancer All-In-One Solid Tumor	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 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.
		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	Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

Polymerase	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 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.
SSEL Low Input Index Primer, Plate 2, ILM	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 Cancer All-In-One Solid Tumor	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	:	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.
		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.
		SSEL Low Input Index Primer, Plate 2, ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

Section 4. First aid measures

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

Section 4. First aid measures

	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.
100 mM dNTP Mix (25 mM each dNTP)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Herculase II Fusion DNA Polymerase	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
5X Herculase II Reaction Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect XT HS and XT Low Input Blocker Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Fast Hybridization Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Section 4. First aid measures

SureSelect RNase Block	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SureSelect Post-Capture Primer Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SSEL Low Input Index Primer, Plate 2, ILM	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

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.
SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
SSel XT HS and XT Low Input	No known significant effects or critical hazards.

Section 4. First aid measures

		Cancer All-In-One Solid Tumor	
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	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.

Section 4. First aid measures

	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.
	SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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 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.
	SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No specific data.

Section 4. First aid measures

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	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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	No specific data.

Section 4. First aid measures

Polymerase	
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.
SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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 specialist immediately if large quantities have been ingested or inhaled.
		100 mM dNTP Mix (25 mM each dNTP)	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

Section 4. First aid measures

			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.
		SSEL Low Input Index Primer, Plate 2, ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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 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.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific treatment.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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. 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.

Section 4. First aid measures

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.
SSEL Low Input Index Primer, Plate 2, ILM	No action shall be taken involving any personal risk or without suitable training.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No action shall be taken involving any personal risk 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.

Section 5. Fire-fighting measures

		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.
		SSEL Low Input Index Primer, Plate 2, ILM	Use an extinguishing agent suitable for the surrounding fire.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		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.
		SSEL Low Input Index Primer, Plate 2, ILM	None known.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.

Section 5. Fire-fighting measures

	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.
	SSEL Low Input Index Primer, Plate 2, ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	In a fire or if heated, a pressure increase will occur and the container may burst.
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.

Section 5. Fire-fighting measures

	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 Mix	No specific data.
	SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Decomposition products may include the following materials: carbon dioxide carbon monoxide

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

Section 5. Fire-fighting measures

			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 without suitable training.
		SureSelect XT HS and XT Low Input Blocker 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 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.
		SSEL Low Input Index Primer, Plate 2, ILM	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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

Section 5. Fire-fighting measures

	(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 (SCBA) with a full face-piece operated in positive pressure mode.
5X Herculase II Reaction 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 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.
SSEL Low Input Index Primer, Plate 2, ILM	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 Cancer All-In-One Solid Tumor	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.
		End Repair-A Tailing Buffer	No action shall be taken involving any personal

Section 6. Accidental release measures

	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 surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

Section 6. Accidental release measures

		touch or walk through spilled material. Put on appropriate personal protective equipment.
	SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.
	SSEL Low Input Index Primer, Plate 2, ILM	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
For emergency responders :	End Repair-A Tailing Enzyme Mix	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".
	End Repair-A Tailing Buffer	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

Section 6. Accidental release measures

	the information in "For non-emergency personnel".
T4 DNA Ligase	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".
Ligation Buffer	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".
Adaptor Oligo Mix	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".
Forward Primer	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".
100 mM dNTP Mix (25 mM each dNTP)	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".
Herculase II Fusion DNA Polymerase	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".
5X Herculase II Reaction Buffer	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 Binding Buffer	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 Wash Buffer 1	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 Wash Buffer 2	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 and XT Low Input Blocker Mix	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 Fast Hybridization Buffer	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 RNase Block	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 Post-Capture Primer Mix	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 Low Input Index Primer, Plate 2, ILM	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

Section 6. Accidental release measures

		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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".
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 caused environmental pollution (sewers, waterways, soil or air).
		5X Herculase II Reaction 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).
		SureSelect Binding 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).
		SureSelect Wash Buffer 1	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,

Section 6. Accidental release measures

	waterways, soil or air).
SureSelect Wash Buffer 2	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).
SureSelect XT HS and XT Low Input Blocker 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).
SureSelect Fast Hybridization 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).
SureSelect RNase Block	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).
SureSelect Post-Capture Primer 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).
SSEL Low Input Index Primer, Plate 2, ILM	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).
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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).

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

Section 6. Accidental release measures

	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 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

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 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.
SSEL Low Input Index Primer, Plate 2, ILM	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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. 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

Section 7. Handling and storage

		(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 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.
	SureSelect Post-Capture Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	SSEL Low Input Index Primer, Plate 2, ILM	Put on appropriate personal protective equipment (see Section 8).
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene :	End Repair-A Tailing Enzyme Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	End Repair-A Tailing 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.
	T4 DNA Ligase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ligation Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and

Section 7. Handling and storage

	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.
Adaptor Oligo Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Forward Primer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
100 mM dNTP Mix (25 mM each dNTP)	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.
Herculase II Fusion DNA Polymerase	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

Section 7. Handling and storage

		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.
	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.
	SSEL Low Input Index Primer, Plate 2, ILM	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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

Section 7. Handling and storage

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

Section 7. Handling and storage

	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 incompatible materials before handling or use.
5X Herculase II Reaction 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 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

Section 7. Handling and storage

	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 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 RNase Block	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 Post-Capture Primer 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.
SSEL Low Input Index Primer, Plate 2, ILM	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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

Section 7. Handling and storage

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.
		SSEL Low Input Index Primer, Plate 2, ILM	Industrial applications, Professional applications.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Industrial applications, Professional applications.
Industrial sector specific solutions	:	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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not available.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
End Repair-A Tailing Enzyme Mix	
Glycerol	**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
End Repair-A Tailing Buffer	
Potassium chloride	None.
T4 DNA Ligase	
Glycerol	**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
Ligation Buffer	
Polyethylene glycol	**OARS WEEL (United States, 1/2021).** TWA: 10 mg/m³ 8 hours.
Glycerol	**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
Herculase II Fusion DNA Polymerase	
Glycerol	**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
5X Herculase II Reaction Buffer	
Trometamol	None.
Ammonium sulphate	None.
Hexadecan-1-ol, ethoxylated	None.
SureSelect Binding Buffer	
Sodium chloride	None.
SureSelect Wash Buffer 1	

Section 8. Exposure controls/personal protection

Sodium dodecyl sulphate	None.
SureSelect Wash Buffer 2 Sodium dodecyl sulphate	None.
SureSelect RNase Block Glycerol	**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
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor Glycerol	**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

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

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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

Section 8. Exposure controls/personal protection

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

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

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state :	End Repair-A Tailing Enzyme Mix	Liquid.
	End Repair-A Tailing Buffer	Liquid.
	T4 DNA Ligase	Liquid.
	Ligation Buffer	Liquid.
	Adaptor Oligo Mix	Liquid.
	Forward Primer	Liquid.
	100 mM dNTP Mix (25 mM each dNTP)	Liquid.
	Herculase II Fusion DNA Polymerase	Liquid.
	5X Herculase II Reaction Buffer	Liquid.
	SureSelect Binding Buffer	Liquid.
	SureSelect Wash Buffer 1	Liquid.
	SureSelect Wash Buffer 2	Liquid.
	SureSelect XT HS and XT Low Input Blocker Mix	Liquid.
	SureSelect Fast Hybridization Buffer	Liquid.
	SureSelect RNase Block	Liquid.
	SureSelect Post-Capture Primer Mix	Liquid.
	SSEL Low Input Index Primer, Plate 2, ILM	Liquid.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Liquid.
Color :	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 and safety characteristics

		SSEL Low Input Index Primer, Plate 2, ILM	Not available.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not available.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not available.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.
pH	:		

Section 9. Physical and chemical properties and safety characteristics

	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	8.2
	5X Herculase II Reaction Buffer	9.5 to 10.5
	SureSelect Binding Buffer	7.5
	SureSelect Wash Buffer 1	7.5
	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
	SSEL Low Input Index Primer, Plate 2, ILM	7.5
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.
Melting point/freezing 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 Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	0°C (32°F)
	SSEL Low Input Index Primer, Plate 2, ILM	0°C (32°F)
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	0°C (32°F)
Boiling point, initial boiling point, and boiling range :	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.

Section 9. Physical and chemical properties and safety characteristics

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)
SSEL Low Input Index Primer, Plate 2, ILM	100°C (212°F)
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	100°C (212°F)

Flash point :

	Closed cup			Open cup		
Ingredient name	**°C**	**°F**	**Method**	**°C**	**°F**	**Method**
End Repair-A Tailing Enzyme Mix						
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				
Glycerol			Pensky-Martens	177	350.6	
End Repair-A Tailing Buffer						
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				
T4 DNA Ligase						
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				
Glycerol			Pensky-Martens	177	350.6	
Ligation Buffer						
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				
Polyethylene glycol	171 to 235	339.8 to 455		199 to 238	390.2 to 460.4	
Adaptor Oligo Mix						
Edetic acid	>100	>212	DIN 51758			
Forward Primer						
Edetic acid	>100	>212	DIN 51758			
100 mM dNTP Mix (25 mM each dNTP)						
Edetic acid	>100	>212	DIN 51758			
Herculase II Fusion						

Section 9. Physical and chemical properties and safety characteristics

DNA Polymerase					
Edetic acid	>100	>212	DIN 51758		
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230			
SureSelect Binding Buffer					
Edetic acid	>100	>212	DIN 51758		
SureSelect Wash Buffer 1					
Citric acid, trisodium salt, dihydrate	>100	>212			
SureSelect Wash Buffer 2					
Citric acid, trisodium salt, dihydrate	>100	>212			
SureSelect XT HS and XT Low Input Blocker Mix					
Edetic acid	>100	>212	DIN 51758		
SureSelect RNase Block					
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230			
Glycerol			Pensky-Martens	177	350.6
SureSelect Post-Capture Primer Mix					
Edetic acid	>100	>212	DIN 51758		
SSEL Low Input Index Primer, Plate 2, ILM					
Edetic acid	>100	>212	DIN 51758		
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor					
Edetic acid	>100	>212	DIN 51758		
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230			

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.

Section 9. Physical and chemical properties and safety characteristics

		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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not available.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.
Flammability	:	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.
		SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not applicable.
Lower and upper explosion limit/flammability limit	:	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.

Section 9. Physical and chemical properties and safety characteristics

SureSelect RNase Block	Not available.
SureSelect Post-Capture Primer Mix	Not available.
SSEL Low Input Index Primer, Plate 2, ILM	Not available.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20˚C			Vapor pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
End Repair-A Tailing Enzyme Mix						
Water	23.8	3.2		92.258	12.3	
Adenosine 5'-(tetrahydrogen triphosphate), disodium salt	<0.00075006	<0.0001		<0.00075006	<0.0001	
End Repair-A Tailing Buffer						
Water	23.8	3.2		92.258	12.3	
Adenosine 5'-(tetrahydrogen triphosphate), disodium salt	<0.00075006	<0.0001		<0.00075006	<0.0001	
T4 DNA Ligase						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
Ligation Buffer						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	
Adaptor Oligo Mix						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
Forward Primer						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
100 mM dNTP Mix (25 mM each dNTP)						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

Section 9. Physical and chemical properties and safety characteristics

Herculase II Fusion DNA Polymerase					
Water	23.8	3.2		92.258	12.3
Glycerol	0.000075	0.00001		0.0025	0.00033
5X Herculase II Reaction Buffer					
Water	23.8	3.2		92.258	12.3
Sulfuric acid, magnesium salt, hydrate (1:1:7)	<0.1	<0.013			
SureSelect Binding Buffer					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001
SureSelect Wash Buffer 1					
Water	23.8	3.2		92.258	12.3
Sodium dodecyl sulphate	≤0.0013501	≤0.00018			
SureSelect Wash Buffer 2					
Water	23.8	3.2		92.258	12.3
Sodium dodecyl sulphate	≤0.0013501	≤0.00018			
SureSelect XT HS and XT Low Input Blocker Mix					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001
SureSelect Fast Hybridization Buffer					
Water	23.8	3.2		92.258	12.3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001
SureSelect RNase Block					
Water	23.8	3.2		92.258	12.3
Glycerol	0.000075	0.00001		0.0025	0.00033
SureSelect Post-Capture Primer Mix					
Water	23.8	3.2		92.258	12.3
2-Amino-2-	0.000027	0.0000036		0.000007501	0.000001

Section 9. Physical and chemical properties and safety characteristics

(hydroxymethyl)propane-1,3-diol hydrochloride						
SSEL Low Input Index Primer, Plate 2, ILM						
Water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor						
Water	23.8	3.2		92.258	12.3	
Glycerol	0.000075	0.00001		0.0025	0.00033	

Relative vapor 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.
SSEL Low Input Index Primer, Plate 2, ILM	Not available.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.

Section 9. Physical and chemical properties and safety characteristics

		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		SSEL Low Input Index Primer, Plate 2, ILM	Not available.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.
Solubility	:	End Repair-A Tailing Enzyme Mix	Easily 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	Easily soluble in the following materials: cold water and hot water.
		Ligation Buffer	Easily 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	Easily 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	Easily soluble in the following materials: cold water and hot water.
		SureSelect RNase Block	Easily 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.
		SSEL Low Input Index Primer, Plate 2, ILM	Easily soluble in the following materials: cold water and hot water.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	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	Not applicable.

Section 9. Physical and chemical properties and safety characteristics

Buffer	
SureSelect RNase Block	Not applicable.
SureSelect Post-Capture Primer Mix	Not applicable.
SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
End Repair-A Tailing Enzyme Mix			
Glycerol	370	698	
T4 DNA Ligase			
Glycerol	370	698	
Ligation Buffer			
Polyethylene glycol	360	680	
Glycerol	370	698	
Adaptor Oligo Mix			
Edetic acid	>400	>752	VDI 2263
Forward Primer			
Edetic acid	>400	>752	VDI 2263
100 mM dNTP Mix (25 mM each dNTP)			
Edetic acid	>400	>752	VDI 2263
Herculase II Fusion DNA Polymerase			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263
SureSelect Binding Buffer			
Edetic acid	>400	>752	VDI 2263
SureSelect Wash Buffer 1			
Sodium dodecyl sulphate	310.5	590.9	VDI 2263
SureSelect Wash Buffer 2			
Sodium dodecyl sulphate	310.5	590.9	VDI 2263
SureSelect XT HS and XT Low Input Blocker Mix			
Edetic acid	>400	>752	VDI 2263
SureSelect RNase Block			
Glycerol	370	698	
4-(2-Hydroxyethyl)piperazin-	>400	>752	EU A.16

Section 9. Physical and chemical properties and safety characteristics

1-ylethanesulphonic acid			
SureSelect Post-Capture Primer Mix			
Edetic acid	>400	>752	VDI 2263
SSEL Low Input Index Primer, Plate 2, ILM			
Edetic acid	>400	>752	VDI 2263
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor			
Glycerol	370	698	
4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid	>400	>752	EU A.16

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.
SSEL Low Input Index Primer, Plate 2, ILM	Not available.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.

Viscosity :

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.

Section 9. Physical and chemical properties and safety characteristics

	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	Not available.
	SSEL Low Input Index Primer, Plate 2, ILM	Not available.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.

Particle characteristics

Median particle size :	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.
	SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not applicable.

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.

Section 10. Stability and reactivity

	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 Buffer	No specific test data related to reactivity available 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.
	SSEL Low Input Index Primer, Plate 2, ILM	No specific test data related to reactivity available for this product or its ingredients.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
	SSEL Low Input Index Primer, Plate 2, ILM	The product is stable.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
	SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

	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.
	SSEL Low Input Index Primer, Plate 2, ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
Forward Primer	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

Section 10. Stability and reactivity

			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.
		SSEL Low Input Index Primer, Plate 2, ILM	May react or be incompatible with oxidizing materials.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SureSelect Wash Buffer 1	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	Under normal conditions of storage and use,

Section 10. Stability and reactivity

Buffer	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.
SSEL Low Input Index Primer, Plate 2, ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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	Rat	>5000 mg/kg	-
Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
Hexadecan-1-ol, ethoxylated	LD50 Oral	Rat	2500 mg/kg	-
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 Cancer All-In-One Solid Tumor				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
End Repair-A Tailing Enzyme Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
End Repair-A Tailing Buffer					
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
T4 DNA Ligase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Ligation Buffer					
Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Herculase II Fusion DNA Polymerase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
5X Herculase II Reaction Buffer					
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
SureSelect Binding Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
SureSelect Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-

Section 11. Toxicological information

	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
SureSelect Wash Buffer 2					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 25 mg	-
SureSelect RNase Block					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
5X Herculase II Reaction Buffer			
Trometamol	Category 3	-	Respiratory tract irritation
SureSelect Wash Buffer 1			
Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation
SureSelect Wash Buffer 2			
Sodium dodecyl sulphate	Category 3	-	Respiratory tract

Section 11. Toxicological information

			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 dNTP)	Not available.
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.
SSEL Low Input Index Primer, Plate 2, ILM	Not available.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.

Section 11. Toxicological information

		SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No known significant effects or critical hazards.

Section 11. Toxicological information

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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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

Section 11. Toxicological information

			redness
		SureSelect Post-Capture Primer Mix	No specific data.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No specific data.

Section 11. Toxicological information

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.
		SSEL Low Input Index Primer, Plate 2, ILM	No specific data.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	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.
		SSEL Low Input Index Primer,	No known significant effects or critical hazards.

Section 11. Toxicological information

		Plate 2, ILM	
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	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.
		SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
		SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No known significant effects or critical hazards.

Section 11. Toxicological information

Reproductive toxicity :	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.
	SSEL Low Input Index Primer, Plate 2, ILM	No known significant effects or critical hazards.
	SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
End Repair-A Tailing Enzyme Mix					
Glycerol	12600	N/A	N/A	N/A	N/A
End Repair-A Tailing Buffer					
End Repair-A Tailing Buffer	159509.2	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
T4 DNA Ligase					
Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Buffer					
Polyethylene glycol	28000	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Herculase II Fusion DNA Polymerase					
Glycerol	12600	N/A	N/A	N/A	N/A
5X Herculase II Reaction Buffer					
5X Herculase II Reaction Buffer	112802.7	N/A	N/A	N/A	N/A
Ammonium sulphate	2840	N/A	N/A	N/A	N/A
Hexadecan-1-ol, ethoxylated	2500	N/A	N/A	N/A	N/A
SureSelect Binding Buffer					
SureSelect Binding Buffer	51369.9	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A

Section 11. Toxicological information

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 Cancer All-In-One Solid Tumor Glycerol	12600	N/A	N/A	N/A	N/A

Other information :

End Repair-A Tailing Enzyme Mix	Not available.
End Repair-A Tailing Buffer	Adverse symptoms may include the following: May cause skin sensitization.
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	Adverse symptoms may include the following: May cause skin sensitization.
SureSelect Post-Capture Primer Mix	Not available.
SSEL Low Input Index Primer, Plate 2, ILM	Not available.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not available.

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	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours

Section 12. Ecological information

T4 DNA Ligase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ligation Buffer			
Polyethylene glycol	Acute LC50 >1000000 µg/l Fresh water	Fish - Salmo salar - Parr	96 hours
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	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	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Ammonium sulphate	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
SureSelect Binding Buffer			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	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	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
SureSelect Wash Buffer 1			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	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
SureSelect Wash Buffer 2			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna -	21 days

Section 12. Ecological information

	Chronic NOEC >1357 µg/l Fresh water	Neonate Fish - Pimephales promelas	42 days
SureSelect RNase Block			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

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				
Polyethylene glycol	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
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	-	-
5X Herculase II Reaction Buffer				
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-
SureSelect Wash Buffer 1				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO_2 Evolution	95 % - Readily - 28 days	20 mg/l	Activated sludge

Section 12. Ecological information

	Test			
SureSelect Wash Buffer 2				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO_2 Evolution Test	95 % - Readily - 28 days	20 mg/l	Activated sludge
SureSelect RNase Block				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor				
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
Ligation Buffer			
Polyethylene glycol	-	-	Readily
5X Herculase II Reaction Buffer			
Trometamol	-	-	Readily
Ammonium sulphate	-	-	Readily
Hexadecan-1-ol, ethoxylated	-	-	Readily
SureSelect Wash Buffer 1			
Sodium dodecyl sulphate	-	-	Readily
SureSelect Wash Buffer 2			
Sodium dodecyl sulphate	-	-	Readily

12.3 Bioaccumulative potential

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	-	3.2	low
Glycerol	-1.76	-	low

Section 12. Ecological information

Herculase II Fusion DNA Polymerase			
Glycerol	-1.76	-	low
5X Herculase II Reaction Buffer			
Trometamol	-2.31	-	low
Ammonium sulphate	-5.1	-	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 Cancer All-In-One Solid Tumor			
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 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 IMO instruments : 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: Potassium hydroxide; Edetic acid

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

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
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.
SSEL Low Input Index Primer, Plate 2, ILM	Not applicable.
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor	Not applicable.

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
End Repair-A Tailing Enzyme Mix		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
End Repair-A Tailing Buffer		
Potassium chloride	≤3	EYE IRRITATION - Category 2B
T4 DNA Ligase		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Ligation Buffer		
Polyethylene glycol	≥10 - ≤25	EYE IRRITATION - Category 2B
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B
Herculase II Fusion DNA Polymerase		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
5X Herculase II Reaction Buffer		
Trometamol	≤3	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Ammonium sulphate	≤3	EYE IRRITATION - Category 2A
SureSelect Binding Buffer		
Sodium chloride	<10	EYE IRRITATION - Category 2A
SureSelect RNase Block		
Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
SSel XT HS and XT Low Input Cancer All-In-One Solid Tumor		
Glycerol	≤3	EYE IRRITATION - Category 2B

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	**5X Herculase II Reaction Buffer** Ammonium sulphate	7783-20-2	≤3
Supplier notification	**5X Herculase II Reaction Buffer** Ammonium sulphate	7783-20-2	≤3

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

Section 15. Regulatory information

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe	:	Not determined.
Japan	:	**Japan inventory (CSCL)**: 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

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	Calculation method
Herculase II Fusion DNA Polymerase EYE IRRITATION - Category 2B	Calculation method
SureSelect RNase Block EYE IRRITATION - Category 2B	Calculation method

History

Date of issue	:	04/04/2022
Date of previous issue	:	12/18/2019
Version	:	2

Section 16. Other information

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

Indicates information that has changed from previously issued version.

Notice to reader

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