

SAFETY DATA SHEET



SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

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

1.1 Product identifier

Product name	: SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P
Part no. (chemical kit)	: G9707P
Part no.	: <u>SureSelect XT HS and XT Low Input Library Prep Kit for ILM (Pre PCR), 96 Rxn</u> 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
	<u>SureSelect XT HS and XT Low Input Library Prep Kit for ILM (Pre PCR), 96 Rxn /</u> 5500-0140 / 5190-9686
	<u>SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxn</u>
	100 mM dNTP Mix (25 mM each dNTP) 200418-51
	Herculase II Fusion DNA Polymerase 5600-3761
	5X Herculase II Reaction Buffer 600675-52
	<u>SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 1 (Post PCR), 96 Rxn</u> 5190-9687
	SureSelect Binding Buffer 5190-9734
	SureSelect Wash Buffer 1 5190-4408
	SureSelect Wash Buffer 2 5190-4409
	<u>SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxn</u> 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
	<u>SureSelect XT Low Input Index Primers 1-96 for</u> 5190-6444

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<u>ILM (Pre PCR)</u>	
SureSelect XT Low Input Index Bulk Set 1	Various*
A01-H12	
SSEL XT HS and XT Low Input Custom	5190-9927 / 5190-9928 / 5190-9929 / 5190-9930 / 5190-9931 / 5190-9943 / 5190-9950 / 5190-9952 / 5190-9945 / 5190-9954 / 5190-9947
Capture Library	5191-4050
<u>SSEL XT HS and XT Low Input Human All Exon V7 Plus 1, 96 Reactions</u>	
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	5191-4050

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.	
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	0.7 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)
SureSelect XT Low Input Index Bulk Set 1 A01-H12	96 x 0.01 ml (96 reactions)
SSEL XT HS and XT Low Input Custom Capture Library	0.192 - 0.48 ml (96 reactions)
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	0.48 ml (96 reactions)

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

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Note * : *SureSelect XT Low Input Index Bulk Set 1 A01-H12: 5600-3801, 5600-3802, 5600-3803, 5600-3804, 5600-3805, 5600-3806, 5600-3807, 5600-3808, 5600-3809, 5600-3810, 5600-3811, 5600-3812, 5600-3813, 5600-3814, 5600-3815, 5600-3816, 5600-3817, 5600-3818, 5600-3819, 5600-3820, 5600-3821, 5600-3822, 5600-3823, 5600-3824, 5600-3825, 5600-3826, 5600-3827, 5600-3828, 5600-3829, 5600-3830, 5600-3831, 5600-3832, 5600-3833, 5600-3834, 5600-3835, 5600-3836, 5600-3837, 5600-3838, 5600-3839, 5600-3840, 5600-3841, 5600-3842, 5600-3843, 5600-3844, 5600-3845, 5600-3846, 5600-3847, 5600-3848, 5600-3849, 5600-3850, 5600-3851, 5600-3852, 5600-3853, 5600-3854, 5600-3855, 5600-3856, 5600-3857, 5600-3858, 5600-3859, 5600-3860, 5600-3861, 5600-3862, 5600-3863, 5600-3864, 5600-3865, 5600-3866, 5600-3867, 5600-3868, 5600-3869, 5600-3870, 5600-3871, 5600-3872, 5600-3873, 5600-3874, 5600-3875, 5600-3876, 5600-3877, 5600-3878, 5600-3879, 5600-3880, 5600-3881, 5600-3882, 5600-3883, 5600-3884, 5600-3885, 5600-3886, 5600-3887, 5600-3888, 5600-3889, 5600-3890, 5600-3891, 5600-3892, 5600-3893, 5600-3894, 5600-3895, 5600-3896

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : End Repair-A Tailing Mixture
 Enzyme Mix
 End Repair-A Tailing Mixture
 Buffer
 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 Mixture
 Polymerase
 5X Herculase II Reaction Mixture
 Buffer
 SureSelect Binding Mixture
 Buffer
 SureSelect Wash Buffer Mixture
 1
 SureSelect Wash Buffer Mixture
 2
 SureSelect XT HS and Mixture
 XT Low Input Blocker Mix
 SureSelect Fast Mixture
 Hybridization Buffer
 SureSelect RNase Block Mixture
 SureSelect Post-Capture Mixture
 Primer Mix
 SureSelect XT Low Input Mixture
 Index Bulk Set 1
 A01-H12
 SSEL XT HS and XT Mixture
 Low Input Custom
 Capture Library
 SSEL XT HS and XT Low Mixture
 Input Human All Exon
 V7 Plus 1

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

Not classified.

SECTION 2: Hazards identification

Ingredients of unknown toxicity	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	T4 DNA Ligase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
	Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	5X Herculase II Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	SureSelect Binding Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%	
SSEL XT HS and XT Low Input Custom Capture Library	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%	
Ingredients of unknown ecotoxicity	: 100 mM dNTP Mix (25 mM each dNTP) SureSelect Fast Hybridization Buffer	Contains 5.4% of components with unknown hazards to the aquatic environment
		Contains 31.3% of components with unknown hazards to the aquatic environment

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

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

2.2 Label elements

Signal word	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer	No signal word.
		No signal word.
		No signal word.
	T4 DNA Ligase	No signal word.
	Ligation Buffer	No signal word.
	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	No signal word.
	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.

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	SureSelect XT HS and XT Low Input Blocker Mix	No signal word.
	SureSelect Fast Hybridization Buffer	No signal word.
	SureSelect RNase Block	No signal word.
	SureSelect Post-Capture Primer Mix	No signal word.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No signal word.
	SSEL XT HS and XT Low Input Custom Capture Library	No signal word.
	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No signal word.
Hazard statements	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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	Not applicable.

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	mM each dNTP)	
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer Mix	Not applicable.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
	SSel XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.
Response	: End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer Mix	Not applicable.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
	SSel XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.

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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 Mix	Not applicable.
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
		SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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	Not applicable.

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	Primer Mix	
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
	SSel XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.
Hazardous ingredients	: 5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
Supplemental label elements	: 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	Safety data sheet available on request.
	SureSelect Binding Buffer	Safety data sheet available on request.
	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	Not applicable.
	Primer Mix	
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
	SSel XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: 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.

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5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Post-Capture Primer Mix	Not applicable.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.

Special packaging requirements

Tactile warning of danger	: End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer Mix	Not applicable.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
	SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.

SECTION 2: Hazards identification

2.3 Other hazards

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

: End Repair-A Tailing Enzyme Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
End Repair-A Tailing Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
T4 DNA Ligase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Ligation Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Adaptor Oligo Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Forward Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
100 mM dNTP Mix (25 mM each dNTP)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Herculase II Fusion DNA Polymerase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
5X Herculase II Reaction Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Binding Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Wash Buffer 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Wash Buffer 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect XT HS and XT Low Input Blocker Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Fast Hybridization Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect RNase Block	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Post-Capture Primer Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SSEL XT HS and XT Low Input Custom Capture Library	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: 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.

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SureSelect XT HS and XT Low Input Blocker Mix	None known.
SureSelect Fast Hybridization Buffer	None known.
SureSelect RNase Block	None known.
SureSelect Post-Capture Primer Mix	None known.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	None known.
SSEL XT HS and XT Low Input Custom Capture Library	None known.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	End Repair-A Tailing Enzyme Mix	Mixture
		End Repair-A Tailing Buffer	Mixture
		T4 DNA Ligase	Mixture
		Ligation Buffer	Mixture
		Adaptor Oligo Mix	Mixture
		Forward Primer	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		5X Herculase II Reaction Buffer	Mixture
		SureSelect Binding Buffer	Mixture
		SureSelect Wash Buffer 1	Mixture
		SureSelect Wash Buffer 2	Mixture
		SureSelect XT HS and XT Low Input Blocker Mix	Mixture
		SureSelect Fast Hybridization Buffer	Mixture
		SureSelect RNase Block	Mixture
		SureSelect Post-Capture Primer Mix	Mixture
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	Mixture
		SSEL XT HS and XT Low Input Custom Capture Library	Mixture
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
End Repair-A Tailing Enzyme Mix Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
T4 DNA Ligase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Ligation Buffer Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]

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SECTION 3: Composition/information on ingredients

Herculase II Fusion DNA Polymerase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
5X Herculase II Reaction Buffer Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Ammonium sulphate	EC: 231-984-1 CAS: 7783-20-2	≤3	Eye Irrit. 2, H319	[1]
Hexadecan-1-ol, ethoxylated	EC: 500-014-1 CAS: 9004-95-9	<2.5	Aquatic Chronic 2, H411	[1]
SureSelect Binding Buffer Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	<10	Eye Irrit. 2, H319	[1]
SureSelect RNase Block Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤3	Not classified.	[2]

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

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of 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. Get medical attention if irritation occurs.
	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. Get medical attention if irritation occurs.
	Ligation 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.
	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.

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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. Get medical attention if irritation occurs.
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. Get medical attention if irritation occurs.
SureSelect Post-Capture Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SSEL XT HS and XT Low Input Custom Capture Library	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 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.
Inhalation : End Repair-A Tailing Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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. Get medical attention if symptoms occur.
Ligation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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.

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100 mM dNTP Mix (25 mM each dNTP)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Herculase II Fusion DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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. Get medical attention if symptoms occur.
SureSelect Post-Capture Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SSEL XT HS and XT Low Input Custom Capture Library	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
End Repair-A Tailing Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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.
Ligation Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Adaptor Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Skin contact

End Repair-A Tailing Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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.
Ligation Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Adaptor Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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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.
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.
SureSelect Post-Capture Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SSEL XT HS and XT Low Input Custom Capture Library	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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. 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.
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. 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.
Ligation 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.
Adaptor Oligo Mix	Wash out mouth with water. If material has been swallowed

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	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, 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. 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.
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.
SureSelect RNase Block	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 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.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	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

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SSEL XT HS and XT Low Input Custom Capture Library	symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SSel XT HS and XT Low Input Human All Exon V7 Plus 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.
Protection of first-aiders : End Repair-A Tailing Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
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.
Ligation Buffer	No action shall be taken involving any personal risk or without suitable training.
Adaptor Oligo Mix	No action shall be taken involving any personal risk or without suitable training.
Forward Primer	No action shall be taken involving any personal risk or without suitable training.
100 mM dNTP Mix (25 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
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.
SureSelect Post-Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No action shall be taken involving any personal risk or without suitable training.
SSEL XT HS and XT Low Input Custom Capture Library	No action shall be taken involving any personal risk or without suitable training.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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Eye contact	:	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
		SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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.

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	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.
Skin contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.
Ingestion	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer	No known significant effects or critical hazards.

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1 SureSelect Wash Buffer	No known significant effects or critical hazards.
2 SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: End Repair-A Tailing Enzyme Mix	No specific data.
End Repair-A Tailing Buffer	No specific data.
T4 DNA Ligase Ligation Buffer	No specific data.
Adaptor Oligo Mix	No specific data.
Forward Primer	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
5X Herculase II Reaction Buffer	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
SureSelect Fast Hybridization Buffer	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Post-Capture Primer Mix	No specific data.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.

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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.	
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.	
		SSEL XT HS and XT Low Input Custom Capture Library	No specific data.	
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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.	

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	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
	SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.
Ingestion	: End Repair-A Tailing Enzyme Mix	No specific data.
	End Repair-A Tailing Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Ligation Buffer	No specific data.
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.
	SureSelect RNase Block	No specific data.
	SureSelect Post-Capture Primer Mix	No specific data.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
	SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
	SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

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Herculase II Fusion DNA Polymerase	to be kept under medical surveillance for 48 hours.
5X Herculase II Reaction Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Binding 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 Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect XT HS and XT Low Input Blocker Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Fast Hybridization Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Post-Capture Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SSEL XT HS and XT Low Input Custom Capture Library	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific treatment.
SSEL XT HS and XT Low Input Custom Capture Library	No specific treatment.

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

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SSEL XT HS and XT Low Input Human All Exon V7 Plus 1 No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	End Repair-A Tailing Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
		End Repair-A Tailing Buffer	Use an extinguishing agent suitable for the surrounding fire.
		T4 DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
		Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
		Adaptor Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.
		Forward Primer	Use an extinguishing agent suitable for the surrounding fire.
		100 mM dNTP Mix (25 mM each dNTP)	Use an extinguishing agent suitable for the surrounding fire.
		Herculase II Fusion DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
		5X Herculase II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect XT HS and XT Low Input Blocker Mix	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect Fast Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect Post-Capture Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	Use an extinguishing agent suitable for the surrounding fire.
		SSEL XT HS and XT Low Input Custom Capture Library	Use an extinguishing agent suitable for the surrounding fire.
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	End Repair-A Tailing Enzyme Mix
		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	None known.

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2		
SureSelect XT HS and XT Low Input Blocker Mix	None known.	
SureSelect Fast Hybridization Buffer	None known.	
SureSelect RNase Block	None known.	
SureSelect Post-Capture Primer Mix	None known.	
SureSelect XT Low Input Index Bulk Set 1 A01-H12	None known.	
SSEL XT HS and XT Low Input Custom Capture Library	None known.	
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	None known.	

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	End Repair-A Tailing Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		End Repair-A Tailing Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		T4 DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
		Ligation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		Adaptor Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		Forward Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
		100 mM dNTP Mix (25 mM each dNTP)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Herculase II Fusion DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
		5X Herculase II Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect XT HS and XT Low Input Blocker Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Fast Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect Post-Capture Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	In a fire or if heated, a pressure increase will occur and the container may burst.
		SSEL XT HS and XT Low Input Custom Capture Library	In a fire or if heated, a pressure increase will occur and the container may burst.
		SSel XT HS and XT Low Input Human All Exon V7 Plus 1	In a fire or if heated, a pressure increase will occur and the container may burst.

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Hazardous combustion products	: End Repair-A Tailing Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	End Repair-A Tailing Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	T4 DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Adaptor Oligo Mix	No specific data.
	Forward Primer	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	5X Herculase II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	SureSelect Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect Post-Capture Primer Mix	No specific data.	
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.	

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SSEL XT HS and XT Low Input Custom Capture Library	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

: End Repair-A Tailing Enzyme Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
End Repair-A Tailing Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
T4 DNA Ligase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Ligation Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Adaptor Oligo Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Forward Primer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
100 mM dNTP Mix (25 mM each dNTP)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
5X Herculase II Reaction Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Binding Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or 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.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	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	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.

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Special protective equipment for fire-fighters

Low Input Custom Capture Library SSeI XT HS and XT Low Input Human All Exon V7 Plus 1	vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
100 mM dNTP Mix (25 mM each dNTP)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves)

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SureSelect Wash Buffer 1	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SSEL XT HS and XT Low Input Custom Capture Library	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 spilt material. Put on appropriate personal protective equipment.
	End Repair-A Tailing Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt 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 spilt material. Put on appropriate personal protective equipment.
	Ligation Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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 spilt 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 spilt 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 spilt 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 spilt material. 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 spilt 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 touch or walk through spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
	SureSelect XT HS and	No action shall be taken involving any personal risk or

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XT Low Input Blocker Mix	without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect 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 spilt 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SSEL XT HS and XT Low Input Custom Capture Library	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
: End Repair-A Tailing Enzyme Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
End Repair-A Tailing Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
T4 DNA Ligase	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Ligation Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Adaptor Oligo Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Forward Primer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
100 mM dNTP Mix (25 mM each dNTP)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Herculase II Fusion DNA	If specialised clothing is required to deal with the spillage,

For emergency responders

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Polymerase	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 specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Binding Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Wash Buffer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Wash Buffer 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect XT HS and XT Low Input Blocker Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Fast Hybridization Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect RNase Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Post-Capture Primer Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect XT Low Input Index Bulk Set 1 A01-H12	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SSEL XT HS and XT Low Input Custom Capture Library	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: End Repair-A Tailing Enzyme Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
End Repair-A Tailing Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
T4 DNA Ligase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ligation Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

SECTION 6: Accidental release measures

	(sewers, waterways, soil or air).
Adaptor Oligo Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Forward Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
100 mM dNTP Mix (25 mM each dNTP)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Herculase II Fusion DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X Herculase II Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Binding Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect XT HS and XT Low Input Blocker Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Fast Hybridization Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect RNase Block	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Post-Capture Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SSEL XT HS and XT Low Input Custom Capture Library	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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6.3 Methods and material for containment and cleaning up

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

SECTION 6: Accidental release measures

XT Low Input Blocker Mix	Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Fast Hybridization Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect RNase Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Post-Capture Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SSEL XT HS and XT Low Input Custom Capture Library	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
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SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 7: Handling and storage

1	Section 8).
SureSelect Wash Buffer	Put on appropriate personal protective equipment (see Section 8).
2	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).
SureSelect Post-Capture Primer Mix	Put on appropriate personal protective equipment (see Section 8).
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Put on appropriate personal protective equipment (see Section 8).
SSEL XT HS and XT Low Input Custom Capture Library	Put on appropriate personal protective equipment (see Section 8).
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	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 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	Eating, drinking and smoking should be prohibited in areas

SECTION 7: Handling and storage

Polymerase	where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
5X Herculase II Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Binding Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect XT HS and XT Low Input Blocker Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Fast Hybridization Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect RNase Block	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Post-Capture Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SSEL XT HS and XT Low Input Custom Capture Library	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

SECTION 7: Handling and storage

SSel XT HS and XT Low Input Human All Exon V7 Plus 1	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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7.2 Conditions for safe storage, including any incompatibilities

Storage

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

SECTION 7: Handling and storage

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

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	<p>been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>SureSelect XT HS and XT Low Input Blocker Mix</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>SureSelect Fast Hybridization Buffer</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>SureSelect RNase Block</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>SureSelect Post-Capture Primer Mix</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>SureSelect XT Low Input Index Bulk Set 1 A01-H12</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>SSEL XT HS and XT Low Input Custom Capture Library</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental</p>

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mM each dNTP)	
Herculase II Fusion DNA Polymerase	Not available.
5X Herculase II Reaction Buffer	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Not available.
SureSelect RNase Block	Not available.
SureSelect Post-Capture Primer Mix	Not available.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
End Repair-A Tailing Enzyme Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
T4 DNA Ligase Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
Ligation Buffer Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
Herculase II Fusion DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
SureSelect RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist
SSEL XT HS and XT Low Input Custom Capture Library Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

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SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects	
5X Herculase II Reaction Buffer Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	29 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	117.5 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	166.7 mg/kg bw/day	Workers	Systemic	
	Ammonium sulphate	DNEL	Long term Inhalation	1.667 mg/m ³	General population	Systemic
		DNEL	Long term Oral	6.4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	11.167 mg/m ³	Workers	Systemic
		DNEL	Long term Dermal	12.8 mg/kg bw/day	General population	Systemic
	SureSelect Binding Buffer Sodium chloride	DNEL	Long term Dermal	42.667 mg/kg bw/day	Workers	Systemic
DNEL		Short term Oral	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Long term Oral	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	295.52 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Dermal	295.52 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	443.28 mg/m ³	General population	Systemic	
DNEL		Long term Inhalation	443.28 mg/m ³	General population	Systemic	
DNEL		Short term Inhalation	2068.62 mg/m ³	Workers	Systemic	
DNEL	Long term Inhalation	2068.62 mg/m ³	Workers	Systemic		

PNECs

No PNECs available

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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

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

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

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

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	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	Liquid.

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	XT Low Input Blocker Mix	
	SureSelect Fast	Liquid.
	Hybridization Buffer	
	SureSelect RNase Block	Liquid.
	SureSelect Post-Capture	Liquid.
	Primer Mix	
	SureSelect XT Low Input	Liquid.
	Index Bulk Set 1	
	A01-H12	
	SSEL XT HS and XT	Liquid.
	Low Input Custom	
	Capture Library	
	SSEL XT HS and XT Low	Liquid.
	Input Human All Exon	
	V7 Plus 1	
Colour	: End Repair-A Tailing	Not available.
	Enzyme Mix	
	End Repair-A Tailing	Not available.
	Buffer	
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25	Not available.
	mM each dNTP)	
	Herculase II Fusion DNA	Not available.
	Polymerase	
	5X Herculase II Reaction	Not available.
	Buffer	
	SureSelect Binding	Not available.
	Buffer	
	SureSelect Wash Buffer	Not available.
	1	
	SureSelect Wash Buffer	Not available.
	2	
	SureSelect XT HS and	Not available.
	XT Low Input Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase Block	Not available.
	SureSelect Post-Capture	Not available.
	Primer Mix	
	SureSelect XT Low Input	Not available.
	Index Bulk Set 1	
	A01-H12	
	SSEL XT HS and XT	Not available.
	Low Input Custom	
	Capture Library	
	SSEL XT HS and XT Low	Not available.
	Input Human All Exon	
	V7 Plus 1	
Odour	: End Repair-A Tailing	Not available.
	Enzyme Mix	
	End Repair-A Tailing	Not available.
	Buffer	
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25	Not available.
	mM each dNTP)	
	Herculase II Fusion DNA	Not available.

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SECTION 9: Physical and chemical properties

Polymerase	
5X Herculase II Reaction Buffer	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Not available.
SureSelect RNase Block	Not available.
SureSelect Post-Capture Primer Mix	Not available.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.
End Repair-A Tailing Enzyme Mix	Not available.
End Repair-A Tailing Buffer	Not available.
T4 DNA Ligase	Not available.
Ligation Buffer	Not available.
Adaptor Oligo Mix	Not available.
Forward Primer	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
Herculase II Fusion DNA Polymerase	Not available.
5X Herculase II Reaction Buffer	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Not available.
SureSelect RNase Block	Not available.
SureSelect Post-Capture Primer Mix	Not available.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.

Odour 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.
:	SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not available.
:	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
:	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

Melting point/freezing point	:	End Repair-A Tailing Enzyme Mix	Not available.	
		End Repair-A Tailing Buffer	0°C	
		T4 DNA Ligase	Not available.	
		Ligation Buffer	Not available.	
		Adaptor Oligo Mix	0°C	
		Forward Primer	0°C	
		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	
		SureSelect Wash Buffer 2	0°C	
		SureSelect XT HS and XT Low Input Blocker Mix	0°C	
		SureSelect Fast Hybridization Buffer	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect Post-Capture Primer Mix	0°C	
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	0°C	
		SSEL XT HS and XT Low Input Custom Capture Library	0°C	
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	0°C	
	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.
			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	100°C (212°F)	

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

	Primer Mix	
	SureSelect XT Low Input	100°C (212°F)
	Index Bulk Set 1	
	A01-H12	
	SSEL XT HS and XT	100°C (212°F)
	Low Input Custom	
	Capture Library	
	SSEL XT HS and XT Low	100°C (212°F)
	Input Human All Exon	
	V7 Plus 1	
Flammability (solid, gas)	: End Repair-A Tailing	Not applicable.
	Enzyme Mix	
	End Repair-A Tailing	Not applicable.
	Buffer	
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25	Not applicable.
	mM each dNTP)	
	Herculase II Fusion DNA	Not applicable.
	Polymerase	
	5X Herculase II Reaction	Not applicable.
	Buffer	
	SureSelect Binding	Not applicable.
	Buffer	
	SureSelect Wash Buffer	Not applicable.
	1	
	SureSelect Wash Buffer	Not applicable.
	2	
	SureSelect XT HS and	Not applicable.
	XT Low Input Blocker Mix	
	SureSelect Fast	Not applicable.
	Hybridization Buffer	
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture	Not applicable.
	Primer Mix	
	SureSelect XT Low Input	Not applicable.
	Index Bulk Set 1	
	A01-H12	
	SSEL XT HS and XT	Not applicable.
	Low Input Custom	
	Capture Library	
	SSEL XT HS and XT Low	Not applicable.
	Input Human All Exon	
	V7 Plus 1	
Upper/lower flammability or explosive limits	: End Repair-A Tailing	Not available.
	Enzyme Mix	
	End Repair-A Tailing	Not available.
	Buffer	
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25	Not available.
	mM each dNTP)	
	Herculase II Fusion DNA	Not available.
	Polymerase	
	5X Herculase II Reaction	Not available.
	Buffer	
	SureSelect Binding	Not available.
	Buffer	

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

SureSelect Wash Buffer 1 Not available.
 SureSelect Wash Buffer 2 Not available.
 SureSelect XT HS and XT Low Input Blocker Mix Not available.
 SureSelect Fast Hybridization Buffer Not available.
 SureSelect RNase Block Not available.
 SureSelect Post-Capture Primer Mix Not available.
 SureSelect XT Low Input Index Bulk Set 1 A01-H12 Not available.
 SSEL XT HS and XT Low Input Custom Capture Library Not available.
 SSeI XT HS and XT Low Input Human All Exon V7 Plus 1 Not available.

Flash point

Ingredient name	Closed cup			Open cup		
	°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			

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

Herculase II Fusion 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			
SureSelect XT Low Input Index Bulk Set 1 A01-H12						
Edetic acid	>100	>212	DIN 51758			
SSEL XT HS and XT Low Input Custom Capture Library						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1						
Edetic acid	>100	>212	DIN 51758			
(R*,R*) -1,4-Dimercaptobutane-2,3-diol	>110	>230				

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

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-1-ylethanesulphonic acid	>400	>752	EU A.16
SureSelect Post-Capture Primer Mix			
Edetic acid	>400	>752	VDI 2263
SureSelect XT Low Input Index Bulk Set 1 A01-H12			
Edetic acid	>400	>752	VDI 2263

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

SSEL XT HS and XT Low Input Custom Capture Library			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263

Decomposition temperature

- : End Repair-A Tailing Enzyme Mix Not available.
- End Repair-A Tailing Buffer Not available.
- T4 DNA Ligase Not available.
- Ligation Buffer Not available.
- Adaptor Oligo Mix Not available.
- Forward Primer Not available.
- 100 mM dNTP Mix (25 mM each dNTP) Not available.
- Herculase II Fusion DNA Polymerase Not available.
- 5X Herculase II Reaction Buffer Not available.
- SureSelect Binding Buffer Not available.
- SureSelect Wash Buffer 1 Not available.
- SureSelect Wash Buffer 2 Not available.
- SureSelect XT HS and XT Low Input Blocker Mix Not available.
- SureSelect Fast Hybridization Buffer Not available.
- SureSelect RNase Block Not available.
- SureSelect Post-Capture Primer Mix Not available.
- SureSelect XT Low Input Index Bulk Set 1 A01-H12 Not available.
- SSEL XT HS and XT Low Input Custom Capture Library Not available.
- SSEL XT HS and XT Low Input Human All Exon V7 Plus 1 Not available.

pH

- : End Repair-A Tailing Enzyme Mix 6.5
- End Repair-A Tailing Buffer 8
- T4 DNA Ligase 7.5
- Ligation Buffer 8
- Adaptor Oligo Mix 7.5
- Forward Primer 7.5
- 100 mM dNTP Mix (25 mM each dNTP) 7.5
- Herculase II Fusion DNA Polymerase 8.2
- 5X Herculase II Reaction Buffer 9.5 to 10.5

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

SureSelect Binding	7.5
Buffer	
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
SureSelect XT Low Input Index Bulk Set 1 A01-H12	7.5
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.
End Repair-A Tailing Enzyme Mix	Not available.
End Repair-A Tailing Buffer	Not available.
T4 DNA Ligase	Not available.
Ligation Buffer	Not available.
Adaptor Oligo Mix	Not available.
Forward Primer	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
Herculase II Fusion DNA Polymerase	Not available.
5X Herculase II Reaction Buffer	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS and XT Low Input Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Not available.
SureSelect RNase Block	Not available.
SureSelect Post-Capture Primer Mix	Not available.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.

Viscosity

:

Solubility(ies)

:

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

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.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Easily soluble in the following materials: cold water and hot water.
SSEL XT HS and XT Low Input Custom Capture Library	Easily soluble in the following materials: cold water and hot water.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	Easily soluble in the following materials: cold water and hot 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	Not applicable.

Partition coefficient: n-octanol/water

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

XT Low Input Blocker Mix
 SureSelect Fast Not applicable.
 Hybridization Buffer
 SureSelect RNase Block Not applicable.
 SureSelect Post-Capture Not applicable.
 Primer Mix
 SureSelect XT Low Input Not applicable.
 Index Bulk Set 1
 A01-H12
 SSEL XT HS and XT Not applicable.
 Low Input Custom
 Capture Library
 SSeI XT HS and XT Low Not applicable.
 Input Human All Exon
 V7 Plus 1

Vapour pressure :

Ingredient name	Vapour Pressure at 20°C			Vapour 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	

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

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
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 XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

SureSelect Post-Capture Primer 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 XT Low Input Index Bulk Set 1 A01-H12					
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 Custom Capture Library					
Water	23.8	3.2		92.258	12.3
Glycerol	0.000075	0.00001		0.0025	0.00033
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1					
Water	23.8	3.2		92.258	12.3
Glycerol	0.000075	0.00001		0.0025	0.00033

Evaporation rate

- : End Repair-A Tailing Enzyme Mix Not available.
- : End Repair-A Tailing Buffer Not available.
- : T4 DNA Ligase Not available.
- : Ligation Buffer Not available.
- : Adaptor Oligo Mix Not available.
- : Forward Primer Not available.
- : 100 mM dNTP Mix (25 mM each dNTP) Not available.
- : Herculase II Fusion DNA Polymerase Not available.
- : 5X Herculase II Reaction Buffer Not available.
- : SureSelect Binding Buffer Not available.
- : SureSelect Wash Buffer 1 Not available.
- : SureSelect Wash Buffer 2 Not available.
- : SureSelect XT HS and XT Low Input Blocker Mix Not available.
- : SureSelect Fast Hybridization Buffer Not available.
- : SureSelect RNase Block Not available.
- : SureSelect Post-Capture Primer Mix Not available.
- : SureSelect XT Low Input Index Bulk Set 1 A01-H12 Not available.
- : SSEL XT HS and XT Low Input Custom Capture Library Not available.

SECTION 9: Physical and chemical properties

	SSEl XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.
Relative density	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS and XT Low Input Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	Not available.
	SureSelect XT Low Input Index Bulk Set 1	Not available.
	A01-H12	
	SSEL XT HS and XT Low Input Custom Capture Library	Not available.
	SSEl XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.
Vapour 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	Not available.

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

Hybridization Buffer
 SureSelect RNase Block Not available.
 SureSelect Post-Capture Not available.
 Primer Mix
 SureSelect XT Low Input Not available.
 Index Bulk Set 1
 A01-H12
 SSEL XT HS and XT Not available.
 Low Input Custom
 Capture Library
 SSeI XT HS and XT Low Not available.
 Input Human All Exon
 V7 Plus 1

Oxidising properties

: End Repair-A Tailing Not available.
 Enzyme Mix
 End Repair-A Tailing Not available.
 Buffer
 T4 DNA Ligase Not available.
 Ligation Buffer Not available.
 Adaptor Oligo Mix Not available.
 Forward Primer Not available.
 100 mM dNTP Mix (25 Not available.
 mM each dNTP)
 Herculase II Fusion DNA Not available.
 Polymerase
 5X Herculase II Reaction Not available.
 Buffer
 SureSelect Binding Not available.
 Buffer
 SureSelect Wash Buffer Not available.
 1
 SureSelect Wash Buffer Not available.
 2
 SureSelect XT HS and Not available.
 XT Low Input Blocker Mix
 SureSelect Fast Not available.
 Hybridization Buffer
 SureSelect RNase Block Not available.
 SureSelect Post-Capture Not available.
 Primer Mix
 SureSelect XT Low Input Not available.
 Index Bulk Set 1
 A01-H12
 SSEL XT HS and XT Not available.
 Low Input Custom
 Capture Library
 SSeI XT HS and XT Low Not available.
 Input Human All Exon
 V7 Plus 1

Particle characteristics

Median particle size

: End Repair-A Tailing Not applicable.
 Enzyme Mix
 End Repair-A Tailing Not applicable.
 Buffer
 T4 DNA Ligase Not applicable.
 Ligation Buffer Not applicable.
 Adaptor Oligo Mix Not applicable.
 Forward Primer Not applicable.
 100 mM dNTP Mix (25 Not applicable.
 mM each dNTP)
 Herculase II Fusion DNA Not applicable.
 Polymerase

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

SECTION 9: Physical and chemical properties

5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Post-Capture Primer Mix	Not applicable.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

SECTION 10: Stability and reactivity

Index Bulk Set 1 A01-H12	product or its ingredients.
SSEL XT HS and XT Low Input Custom Capture Library	No specific test data related to reactivity available for this product or its ingredients.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: End Repair-A Tailing Enzyme Mix	The product is stable.
End Repair-A Tailing Buffer	The product is stable.
T4 DNA Ligase	The product is stable.
Ligation Buffer	The product is stable.
Adaptor Oligo Mix	The product is stable.
Forward Primer	The product is stable.
100 mM dNTP Mix (25 mM each dNTP)	The product is stable.
Herculase II Fusion DNA Polymerase	The product is stable.
5X Herculase II Reaction Buffer	The product is stable.
SureSelect Binding Buffer	The product is stable.
SureSelect Wash Buffer 1	The product is stable.
SureSelect Wash Buffer 2	The product is stable.
SureSelect XT HS and XT Low Input Blocker Mix	The product is stable.
SureSelect Fast Hybridization Buffer	The product is stable.
SureSelect RNase Block	The product is stable.
SureSelect Post-Capture Primer Mix	The product is stable.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	The product is stable.
SSEL XT HS and XT Low Input Custom Capture Library	The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	

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.

SECTION 10: Stability and reactivity

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.
SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT HS and XT Low Input Blocker Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Post-Capture Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Under normal conditions of storage and use, hazardous reactions will not occur.
SSEL XT HS and XT Low Input Custom Capture Library	Under normal conditions of storage and use, hazardous reactions will not occur.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	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 Ligation Buffer	No specific data.
: Adaptor Oligo Mix	No specific data.
: Forward Primer	No specific data.
: 100 mM dNTP Mix (25 mM each dNTP)	No specific data.
: Herculase II Fusion DNA Polymerase	No specific data.
: 5X Herculase II Reaction Buffer	No specific data.
: SureSelect Binding Buffer	No specific data.
: SureSelect Wash Buffer 1	No specific data.
: SureSelect Wash Buffer 2	No specific data.
: SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
: SureSelect Fast Hybridization Buffer	No specific data.
: SureSelect RNase Block	No specific data.
: SureSelect Post-Capture Primer Mix	No specific data.
: SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
: SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
: SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.

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10.5 Incompatible materials

: End Repair-A Tailing Enzyme Mix	May react or be incompatible with oxidising materials.
End Repair-A Tailing Buffer	May react or be incompatible with oxidising materials.
T4 DNA Ligase	May react or be incompatible with oxidising materials.
Ligation Buffer	May react or be incompatible with oxidising materials.
Adaptor Oligo Mix	May react or be incompatible with oxidising materials.
Forward Primer	May react or be incompatible with oxidising materials.
100 mM dNTP Mix (25 mM each dNTP)	May react or be incompatible with oxidising materials.
Herculase II Fusion DNA Polymerase	May react or be incompatible with oxidising materials.
5X Herculase II Reaction Buffer	May react or be incompatible with oxidising materials.
SureSelect Binding Buffer	May react or be incompatible with oxidising materials.
SureSelect Wash Buffer 1	May react or be incompatible with oxidising materials.
SureSelect Wash Buffer 2	May react or be incompatible with oxidising materials.
SureSelect XT HS and XT Low Input Blocker Mix	May react or be incompatible with oxidising materials.
SureSelect Fast Hybridization Buffer	May react or be incompatible with oxidising materials.
SureSelect RNase Block	May react or be incompatible with oxidising materials.
SureSelect Post-Capture Primer Mix	May react or be incompatible with oxidising materials.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	May react or be incompatible with oxidising materials.
SSEL XT HS and XT Low Input Custom Capture Library	May react or be incompatible with oxidising materials.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	May react or be incompatible with oxidising 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	Under normal conditions of storage and use, hazardous

SureSelect XT Low Input Reagent Kit, index 1-96 + Human All Exon V7 Plus 1 Target Enrichment Baits, 96 rxn, Part Number G9707P

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XT Low Input Blocker Mix	decomposition products should not be produced.
SureSelect Fast	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Post-Capture Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SSEL XT HS and XT Low Input Custom Capture Library	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	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
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	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
5X Herculase II Reaction Buffer					
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					
Sodium chloride	3000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

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Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on 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.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not available.
SSEL XT HS and XT Low Input Custom Capture Library	Not available.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not available.

Potential acute health effects

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.

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Forward Primer	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.
Ingestion : End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
End Repair-A Tailing Buffer	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
Ligation Buffer	No known significant effects or critical hazards.
Adaptor Oligo Mix	No known significant effects or critical hazards.
Forward Primer	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSEL XT HS and XT Low	No known significant effects or critical hazards.

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Input Human All Exon V7 Plus 1

Skin contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
	SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.
Eye 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.

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SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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.	
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.	
		SSEL XT HS and XT Low Input Custom Capture Library	No specific data.	
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.	
	Ingestion	:	End Repair-A Tailing Enzyme Mix	No specific data.
			End Repair-A Tailing Buffer	No specific data.
			T4 DNA Ligase	No specific data.
			Ligation Buffer	No specific data.
			Adaptor Oligo Mix	No specific data.
			Forward Primer	No specific data.
			100 mM dNTP Mix (25 mM each dNTP)	No specific data.
			Herculase II Fusion DNA Polymerase	No specific data.
			5X Herculase II Reaction Buffer	No specific data.

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SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
SureSelect Fast Hybridization Buffer	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Post-Capture Primer Mix	No specific data.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.
End Repair-A Tailing Enzyme Mix	No specific data.
End Repair-A Tailing Buffer	No specific data.
T4 DNA Ligase	No specific data.
Ligation Buffer	No specific data.
Adaptor Oligo Mix	No specific data.
Forward Primer	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
5X Herculase II Reaction Buffer	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
SureSelect Fast Hybridization Buffer	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Post-Capture Primer Mix	No specific data.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.

Skin contact

:

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Eye contact	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		Adaptor Oligo Mix	No specific data.
		Forward Primer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect XT HS and XT Low Input Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Post-Capture Primer Mix	No specific data.
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	No specific data.
		SSEL XT HS and XT Low Input Custom Capture Library	No specific data.
		SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	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.

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5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.
Carcinogenicity : End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
End Repair-A Tailing Buffer	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
Ligation Buffer	No known significant effects or critical hazards.
Adaptor Oligo Mix	No known significant effects or critical hazards.
Forward Primer	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.
SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.
SSel XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.

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Mutagenicity	:	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.	
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.	
		T4 DNA Ligase	No known significant effects or critical hazards.	
		Ligation Buffer	No known significant effects or critical hazards.	
		Adaptor Oligo Mix	No known significant effects or critical hazards.	
		Forward Primer	No known significant effects or critical hazards.	
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.	
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.	
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.	
		SureSelect Binding Buffer	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.	
		SureSelect XT HS and XT Low Input Blocker Mix	No known significant effects or critical hazards.	
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.	
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	No known significant effects or critical hazards.	
		SSEL XT HS and XT Low Input Custom Capture Library	No known significant effects or critical hazards.	
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	No known significant effects or critical hazards.	
	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.	

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SureSelect XT Low Input Index Bulk Set 1 A01-H12
 SSEL XT HS and XT Low Input Custom Capture Library
 SSEL XT HS and XT Low Input Human All Exon V7 Plus 1

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

Other information

End Repair-A Tailing Enzyme Mix Not available.
 End Repair-A Tailing Buffer Adverse symptoms may include the following: May cause skin sensitisation.
 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 sensitisation.
 SureSelect Post-Capture Primer Mix Not available.
 SureSelect XT Low Input Index Bulk Set 1 A01-H12
 SSEL XT HS and XT Low Input Custom Capture Library
 SSEL XT HS and XT Low Input Human All Exon V7 Plus 1 Not available.
 Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5X Herculase II Reaction Buffer			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
Ammonium sulphate	Acute NOEC 520 mg/l Fresh water Chronic NOEC 7.5 mg/l Marine water	Daphnia Algae - Phaeodactylum tricorutum - Exponential growth phase	48 hours 96 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
SureSelect Binding Buffer			

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SECTION 12: Ecological information

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
5X Herculase II Reaction Buffer Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5X Herculase II Reaction Buffer Trometamol	-	-	Readily
Ammonium sulphate	-	-	Readily
Hexadecan-1-ol, ethoxylated	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
5X Herculase II Reaction Buffer Trometamol	-2.31	-	low
Ammonium sulphate	-5.1	-	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

Packaging

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

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

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

Ingredient name	EC number	CAS number	Restriction
5X Herculase II Reaction Buffer ammonium sulphate	231-984-1	7783-20-2	65

Label	:	End Repair-A Tailing Enzyme Mix	Not applicable.
		End Repair-A Tailing Buffer	Not applicable.
		T4 DNA Ligase	Not applicable.
		Ligation Buffer	Not applicable.
		Adaptor Oligo Mix	Not applicable.
		Forward Primer	Not applicable.
		100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		SureSelect XT Low Input Index Bulk Set 1 A01-H12	Not applicable.
		SSEL XT HS and XT Low Input Custom Capture Library	Not applicable.
		SSEL XT HS and XT Low Input Human All Exon V7 Plus 1	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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SECTION 15: Regulatory information

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.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

<p>X Herculase II Reaction Buffer H315 H319 H411</p> <p>SureSelect Binding Buffer H319</p>	<p>Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.</p> <p>Causes serious eye irritation.</p>
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Full text of classifications [CLP/GHS]

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SECTION 16: Other information

<p>5X Herculanase II Reaction Buffer Aquatic Chronic 2 Eye Irrit. 2 Skin Irrit. 2</p>	<p>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2</p>
<p>SureSelect Binding Buffer Eye Irrit. 2</p>	<p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p>

Date of issue/ Date of revision : 31/03/2022

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Note * : *SureSelect XT Low Input Index Bulk Set 1 A01-H12: 5600-3801, 5600-3802, 5600-3803, 5600-3804, 5600-3805, 5600-3806, 5600-3807, 5600-3808, 5600-3809, 5600-3810, 5600-3811, 5600-3812, 5600-3813, 5600-3814, 5600-3815, 5600-3816, 5600-3817, 5600-3818, 5600-3819, 5600-3820, 5600-3821, 5600-3822, 5600-3823, 5600-3824, 5600-3825, 5600-3826, 5600-3827, 5600-3828, 5600-3829, 5600-3830, 5600-3831, 5600-3832, 5600-3833, 5600-3834, 5600-3835, 5600-3836, 5600-3837, 5600-3838, 5600-3839, 5600-3840, 5600-3841, 5600-3842, 5600-3843, 5600-3844, 5600-3845, 5600-3846, 5600-3847, 5600-3848, 5600-3849, 5600-3850, 5600-3851, 5600-3852, 5600-3853, 5600-3854, 5600-3855, 5600-3856, 5600-3857, 5600-3858, 5600-3859, 5600-3860, 5600-3861, 5600-3862, 5600-3863, 5600-3864, 5600-3865, 5600-3866, 5600-3867, 5600-3868, 5600-3869, 5600-3870, 5600-3871, 5600-3872, 5600-3873, 5600-3874, 5600-3875, 5600-3876, 5600-3877, 5600-3878, 5600-3879, 5600-3880, 5600-3881, 5600-3882, 5600-3883, 5600-3884, 5600-3885, 5600-3886, 5600-3887, 5600-3888, 5600-3889, 5600-3890, 5600-3891, 5600-3892, 5600-3893, 5600-3894, 5600-3895, 5600-3896

Notice to reader

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