

# SAFETY DATA SHEET



SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126

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

### 1.1 Product identifier

<b>Product name</b>	: SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126
<b>Part no. (chemical kit)</b>	: 5500-0126
<b>Part no.</b>	: <input checked="" type="checkbox"/> DMSO 600260-53
	5X Herculase II Reaction Buffer 600675-52
	100 mM dNTP Mix (25 mM each dNTP) 200418-51
	Herculase II Fusion DNA Polymerase 600677-51
	SureSelect QXT Enzyme Mix ILM 5190-7046
	SureSelect QXT Buffer 5190-7047
	SureSelect QXT P7 i1 5190-7091
	SureSelect QXT P7 i2 5190-7092
	SureSelect QXT P7 i3 5190-7093
	SureSelect QXT P7 i4 5190-7094
	SureSelect QXT P7 i5 5190-7095
	SureSelect QXT P7 i6 5190-7060
	SureSelect QXT P7 i7 5190-7257
	SureSelect QXT P7 i8 5190-7258
	SureSelect QXT P5 i13 5190-7259
	SureSelect QXT P5 i14 5190-7260
	SureSelect QXT Read Primer 1 5190-7948
	SureSelect QXT Read Primer 2 5190-7050
	SureSelect QXT Index Read Primer 5190-7051
	SureSelect QXT Index 2 Read Primer NSQ 5190-7946

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

<b>Material uses</b>	: Analytical reagent.
	<input checked="" type="checkbox"/> DMSO 1.02 ml
	5X Herculase II Reaction Buffer 1.65 ml
	100 mM dNTP Mix (25 mM each dNTP) 0.11 ml
	Herculase II Fusion DNA Polymerase 0.22 ml (200 reactions)
	SureSelect QXT Enzyme Mix ILM 0.04 ml (16 reactions)
	SureSelect QXT Buffer 0.3 ml (16 reactions)
	SureSelect QXT P7 i1 0.015 ml (16 reactions)
	SureSelect QXT P7 i2 0.015 ml (16 reactions)
	SureSelect QXT P7 i3 0.015 ml (16 reactions)
	SureSelect QXT P7 i4 0.015 ml (16 reactions)
	SureSelect QXT P7 i5 0.015 ml (16 reactions)
	SureSelect QXT P7 i6 0.015 ml (16 reactions)
	SureSelect QXT P7 i7 0.015 ml (16 reactions)
	SureSelect QXT P7 i8 0.015 ml (16 reactions)
	SureSelect QXT P5 i13 0.020 ml (16 reactions)
	SureSelect QXT P5 i14 0.020 ml (16 reactions)
	SureSelect QXT Read Primer 1 0.265 ml (16 reactions)
	SureSelect QXT Read Primer 2 0.265 ml (16 reactions)
	SureSelect QXT Index Read Primer 0.265 ml (16 reactions)
	SureSelect QXT Index 2 Read Primer NSQ 0.265 ml (16 reactions)

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

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	:	☑ MISO	Mono-constituent substance
		5X Herculase II Reaction Buffer	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		SureSelect QXT Enzyme Mix ILM	Mixture
		SureSelect QXT Buffer	Mixture
		SureSelect QXT P7 i1	Mixture
		SureSelect QXT P7 i2	Mixture
		SureSelect QXT P7 i3	Mixture
		SureSelect QXT P7 i4	Mixture
		SureSelect QXT P7 i5	Mixture
		SureSelect QXT P7 i6	Mixture
		SureSelect QXT P7 i7	Mixture
		SureSelect QXT P7 i8	Mixture
		SureSelect QXT P5 i13	Mixture
		SureSelect QXT P5 i14	Mixture
		SureSelect QXT Read Primer 1	Mixture
		SureSelect QXT Read Primer 2	Mixture
		SureSelect QXT Index Read Primer	Mixture
		SureSelect QXT Index 2 Read Primer NSQ	Mixture

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

Not classified.

<b>Ingredients of unknown toxicity</b>	:	☒ 5X Herculase II Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

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## SECTION 2: Hazards identification

		unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
	SureSelect QXT Enzyme Mix ILM	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
	SureSelect QXT Buffer	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
<b>Ingredients of unknown ecotoxicity</b>	: 100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.4%

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

<b>Signal word</b>	: DMSO	No signal word.
	5X Herculase II Reaction Buffer	No signal word.
	100 mM dNTP Mix (25 mM each dNTP)	No signal word.
	Herculase II Fusion DNA Polymerase	No signal word.
	SureSelect QXT Enzyme Mix ILM	No signal word.
	SureSelect QXT Buffer	No signal word.
	SureSelect QXT P7 i1	No signal word.
	SureSelect QXT P7 i2	No signal word.
	SureSelect QXT P7 i3	No signal word.
	SureSelect QXT P7 i4	No signal word.
	SureSelect QXT P7 i5	No signal word.
	SureSelect QXT P7 i6	No signal word.
	SureSelect QXT P7 i7	No signal word.
	SureSelect QXT P7 i8	No signal word.
	SureSelect QXT P5 i13	No signal word.
	SureSelect QXT P5 i14	No signal word.
	SureSelect QXT Read Primer 1	No signal word.
	SureSelect QXT Read Primer 2	No signal word.
	SureSelect QXT Index Read Primer	No signal word.
	SureSelect QXT Index 2 Read Primer NSQ	No signal word.

<b>Hazard statements</b>	: DMSO	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	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.
	SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
	SureSelect QXT Buffer	No known significant effects or critical hazards.
	SureSelect QXT P7 i1	No known significant effects or critical hazards.
	SureSelect QXT P7 i2	No known significant effects or critical hazards.
	SureSelect QXT P7 i3	No known significant effects or critical hazards.
	SureSelect QXT P7 i4	No known significant effects or critical hazards.

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SureSelect QXT P7 i5	No known significant effects or critical hazards.
SureSelect QXT P7 i6	No known significant effects or critical hazards.
SureSelect QXT P7 i7	No known significant effects or critical hazards.
SureSelect QXT P7 i8	No known significant effects or critical hazards.
SureSelect QXT P5 i13	No known significant effects or critical hazards.
SureSelect QXT P5 i14	No known significant effects or critical hazards.
SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.

### Precautionary statements

#### Prevention

: DMSO	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect QXT Enzyme Mix ILM	Not applicable.
SureSelect QXT Buffer	Not applicable.
SureSelect QXT P7 i1	Not applicable.
SureSelect QXT P7 i2	Not applicable.
SureSelect QXT P7 i3	Not applicable.
SureSelect QXT P7 i4	Not applicable.
SureSelect QXT P7 i5	Not applicable.
SureSelect QXT P7 i6	Not applicable.
SureSelect QXT P7 i7	Not applicable.
SureSelect QXT P7 i8	Not applicable.
SureSelect QXT P5 i13	Not applicable.
SureSelect QXT P5 i14	Not applicable.
SureSelect QXT Read Primer 1	Not applicable.
SureSelect QXT Read Primer 2	Not applicable.
SureSelect QXT Index Read Primer	Not applicable.
SureSelect QXT Index 2 Read Primer NSQ	Not applicable.

#### Response

: DMSO	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect QXT Enzyme Mix ILM	Not applicable.
SureSelect QXT Buffer	Not applicable.
SureSelect QXT P7 i1	Not applicable.
SureSelect QXT P7 i2	Not applicable.
SureSelect QXT P7 i3	Not applicable.
SureSelect QXT P7 i4	Not applicable.
SureSelect QXT P7 i5	Not applicable.
SureSelect QXT P7 i6	Not applicable.
SureSelect QXT P7 i7	Not applicable.
SureSelect QXT P7 i8	Not applicable.

## SECTION 2: Hazards identification

	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.
	SureSelect QXT Index Read Primer	Not applicable.
	SureSelect QXT Index 2 Read Primer NSQ	Not applicable.
<b>Storage</b>	: DMSO	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	SureSelect QXT P7 i1	Not applicable.
	SureSelect QXT P7 i2	Not applicable.
	SureSelect QXT P7 i3	Not applicable.
	SureSelect QXT P7 i4	Not applicable.
	SureSelect QXT P7 i5	Not applicable.
	SureSelect QXT P7 i6	Not applicable.
	SureSelect QXT P7 i7	Not applicable.
	SureSelect QXT P7 i8	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.
	SureSelect QXT Index Read Primer	Not applicable.
	SureSelect QXT Index 2 Read Primer NSQ	Not applicable.
<b>Disposal</b>	: DMSO	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	SureSelect QXT P7 i1	Not applicable.
	SureSelect QXT P7 i2	Not applicable.
	SureSelect QXT P7 i3	Not applicable.
	SureSelect QXT P7 i4	Not applicable.
	SureSelect QXT P7 i5	Not applicable.
	SureSelect QXT P7 i6	Not applicable.
	SureSelect QXT P7 i7	Not applicable.
	SureSelect QXT P7 i8	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read	Not applicable.

## SECTION 2: Hazards identification

	Primer 2	
	SureSelect QXT Index	Not applicable.
	Read Primer	
	SureSelect QXT Index 2	Not applicable.
	Read Primer NSQ	
<b>Hazardous ingredients</b>	: <input checked="" type="checkbox"/> 5X Herculase II Reaction Buffer	Not applicable.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/> DMSO	Not applicable.
	5X Herculase II Reaction Buffer	Safety data sheet available on request.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	SureSelect QXT P7 i1	Not applicable.
	SureSelect QXT P7 i2	Not applicable.
	SureSelect QXT P7 i3	Not applicable.
	SureSelect QXT P7 i4	Not applicable.
	SureSelect QXT P7 i5	Not applicable.
	SureSelect QXT P7 i6	Not applicable.
	SureSelect QXT P7 i7	Not applicable.
	SureSelect QXT P7 i8	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.
	SureSelect QXT Index	Not applicable.
	Read Primer	
	SureSelect QXT Index 2	Not applicable.
	Read Primer NSQ	
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: <input checked="" type="checkbox"/> DMSO	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	SureSelect QXT P7 i1	Not applicable.
	SureSelect QXT P7 i2	Not applicable.
	SureSelect QXT P7 i3	Not applicable.
	SureSelect QXT P7 i4	Not applicable.
	SureSelect QXT P7 i5	Not applicable.
	SureSelect QXT P7 i6	Not applicable.
	SureSelect QXT P7 i7	Not applicable.
	SureSelect QXT P7 i8	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.
	SureSelect QXT Index	Not applicable.

## SECTION 2: Hazards identification

Read Primer  
SureSelect QXT Index 2 Not applicable.  
Read Primer NSQ

### Special packaging requirements

**Tactile warning of danger** : MSO Not applicable.  
5X Herculase II Reaction Buffer Not applicable.  
100 mM dNTP Mix (25 mM each dNTP) Not applicable.  
Herculase II Fusion DNA Polymerase Not applicable.  
SureSelect QXT Enzyme Mix ILM Not applicable.  
SureSelect QXT Buffer Not applicable.  
SureSelect QXT P7 i1 Not applicable.  
SureSelect QXT P7 i2 Not applicable.  
SureSelect QXT P7 i3 Not applicable.  
SureSelect QXT P7 i4 Not applicable.  
SureSelect QXT P7 i5 Not applicable.  
SureSelect QXT P7 i6 Not applicable.  
SureSelect QXT P7 i7 Not applicable.  
SureSelect QXT P7 i8 Not applicable.  
SureSelect QXT P5 i13 Not applicable.  
SureSelect QXT P5 i14 Not applicable.  
SureSelect QXT Read Primer 1 Not applicable.  
SureSelect QXT Read Primer 2 Not applicable.  
SureSelect QXT Index Read Primer Not applicable.  
SureSelect QXT Index 2 Read Primer NSQ Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : MSO None known.  
5X Herculase II Reaction Buffer None known.  
100 mM dNTP Mix (25 mM each dNTP) None known.  
Herculase II Fusion DNA Polymerase None known.  
SureSelect QXT Enzyme Mix ILM None known.  
SureSelect QXT Buffer None known.  
SureSelect QXT P7 i1 None known.  
SureSelect QXT P7 i2 None known.  
SureSelect QXT P7 i3 None known.  
SureSelect QXT P7 i4 None known.  
SureSelect QXT P7 i5 None known.  
SureSelect QXT P7 i6 None known.  
SureSelect QXT P7 i7 None known.  
SureSelect QXT P7 i8 None known.  
SureSelect QXT P5 i13 None known.  
SureSelect QXT P5 i14 None known.  
SureSelect QXT Read Primer 1 None known.  
SureSelect QXT Read Primer 2 None known.  
SureSelect QXT Index Read Primer None known.



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## SECTION 2: Hazards identification

SureSelect QXT Index 2 None known.  
Read Primer NSQ

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	:	DMSO	Mono-constituent substance
		5X Herculase II Reaction Buffer	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		SureSelect QXT Enzyme Mix ILM	Mixture
		SureSelect QXT Buffer	Mixture
		SureSelect QXT P7 i1	Mixture
		SureSelect QXT P7 i2	Mixture
		SureSelect QXT P7 i3	Mixture
		SureSelect QXT P7 i4	Mixture
		SureSelect QXT P7 i5	Mixture
		SureSelect QXT P7 i6	Mixture
		SureSelect QXT P7 i7	Mixture
		SureSelect QXT P7 i8	Mixture
		SureSelect QXT P5 i13	Mixture
		SureSelect QXT P5 i14	Mixture
		SureSelect QXT Read Primer 1	Mixture
		SureSelect QXT Read Primer 2	Mixture
		SureSelect QXT Index Read Primer	Mixture
		SureSelect QXT Index 2 Read Primer NSQ	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>DMSO</b> Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	[A]
<b>5X Herculase II Reaction Buffer</b> Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Ammonium sulphate	EC: 231-984-1 CAS: 7783-20-2	<2.5	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412	[1]
Hexadecan-1-ol, ethoxylated	EC: 500-014-1 CAS: 9004-95-9	≤3	Skin Irrit. 2, H315	[1]
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>SureSelect QXT Enzyme Mix ILM</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>SureSelect QXT Buffer</b> Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]



SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126

## SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.	
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 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
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: <input checked="" type="checkbox"/> DMSO	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.
	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.
	SureSelect QXT Enzyme Mix ILM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect QXT 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 QXT P7 i1	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 QXT P7 i2	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 QXT P7 i3	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 QXT P7 i4	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 QXT P7 i5	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 QXT P7 i6	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 QXT P7 i7	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 QXT P7 i8	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

## SECTION 4: First aid measures

SureSelect QXT P5 i13	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 QXT P5 i14	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 QXT Read Primer 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 QXT Read Primer 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 QXT Index Read 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.
SureSelect QXT Index 2 Read Primer NSQ	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.
<b>Inhalation</b>	
:  DMSO	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.
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.
SureSelect QXT Enzyme Mix ILM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i5	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i6	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i7	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

## SECTION 4: First aid measures

	SureSelect QXT P7 i8	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect QXT P5 i13	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect QXT P5 i14	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect QXT Read Primer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect QXT Read Primer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect QXT Index Read Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect QXT Index 2 Read Primer NSQ	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: DMSO	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.
	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.
	SureSelect QXT Enzyme Mix ILM	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i5	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i6	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i7	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P7 i8	Flush contaminated skin with plenty of water. Remove

## SECTION 4: First aid measures


		contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P5 i13	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT P5 i14	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT Read Primer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT Read Primer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT Index Read Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect QXT Index 2 Read Primer NSQ	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	<b>: DMSO</b>	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	5X Herculase II Reaction Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	100 mM dNTP Mix (25 mM each dNTP)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Herculase II Fusion DNA Polymerase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect QXT Enzyme Mix ILM	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect QXT Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect QXT P7 i1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## SECTION 4: First aid measures

SureSelect QXT P7 i2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P7 i3	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P7 i4	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P7 i5	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P7 i6	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P7 i7	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P7 i8	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P5 i13	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT P5 i14	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT Read Primer 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT Read Primer 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If



## SECTION 4: First aid measures

SureSelect QXT Index Read Primer	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. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect QXT Index 2 Read Primer NSQ	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b> :  DMSO	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.
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.
SureSelect QXT Enzyme Mix ILM	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i1	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i2	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i3	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i4	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i5	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i6	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i7	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i8	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i13	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i14	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Read Primer 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Read Primer 2	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Index Read Primer	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT Index 2 Read Primer NSQ	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

## SECTION 4: First aid measures

<b>Eye contact</b>	:	☑ DMSO	No known significant effects or critical hazards.	
			5X Herculase II Reaction Buffer	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.
			SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
			SureSelect QXT Buffer	No known significant effects or critical hazards.
			SureSelect QXT P7 i1	No known significant effects or critical hazards.
			SureSelect QXT P7 i2	No known significant effects or critical hazards.
			SureSelect QXT P7 i3	No known significant effects or critical hazards.
			SureSelect QXT P7 i4	No known significant effects or critical hazards.
			SureSelect QXT P7 i5	No known significant effects or critical hazards.
			SureSelect QXT P7 i6	No known significant effects or critical hazards.
			SureSelect QXT P7 i7	No known significant effects or critical hazards.
			SureSelect QXT P7 i8	No known significant effects or critical hazards.
			SureSelect QXT P5 i13	No known significant effects or critical hazards.
			SureSelect QXT P5 i14	No known significant effects or critical hazards.
			SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
			SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
			SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
			SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Inhalation</b>	:	☑ DMSO	No known significant effects or critical hazards.	
			5X Herculase II Reaction Buffer	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.
			SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
			SureSelect QXT Buffer	No known significant effects or critical hazards.
			SureSelect QXT P7 i1	No known significant effects or critical hazards.
			SureSelect QXT P7 i2	No known significant effects or critical hazards.
			SureSelect QXT P7 i3	No known significant effects or critical hazards.
			SureSelect QXT P7 i4	No known significant effects or critical hazards.
			SureSelect QXT P7 i5	No known significant effects or critical hazards.
			SureSelect QXT P7 i6	No known significant effects or critical hazards.
			SureSelect QXT P7 i7	No known significant effects or critical hazards.
			SureSelect QXT P7 i8	No known significant effects or critical hazards.
			SureSelect QXT P5 i13	No known significant effects or critical hazards.
			SureSelect QXT P5 i14	No known significant effects or critical hazards.
			SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
			SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
			SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
			SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.



## SECTION 4: First aid measures

<b>Skin contact</b>	:	DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Ingestion</b>	:	DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

## SECTION 4: First aid measures

<b>Eye contact</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.
	<b>Inhalation</b>	:	DMSO
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.

## SECTION 4: First aid measures

<b>Skin contact</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.
<b>Ingestion</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

## SECTION 4: First aid measures

<b>Notes to physician</b>	: <b>DMSO</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	5X Herculase II Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	100 mM dNTP Mix (25 mM each dNTP)	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Herculase II Fusion DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Enzyme Mix ILM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i5	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i6	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i7	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P7 i8	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P5 i13	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT P5 i14	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Read Primer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Read Primer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Index Read Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect QXT Index 2 Read Primer NSQ	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: <b>DMSO</b>	No specific treatment.
	5X Herculase II Reaction Buffer	No specific treatment.
	100 mM dNTP Mix (25 mM each dNTP)	No specific treatment.
	Herculase II Fusion DNA Polymerase	No specific treatment.
	SureSelect QXT Enzyme Mix ILM	No specific treatment.
	SureSelect QXT Buffer	No specific treatment.
	SureSelect QXT P7 i1	No specific treatment.
	SureSelect QXT P7 i2	No specific treatment.
	SureSelect QXT P7 i3	No specific treatment.
	SureSelect QXT P7 i4	No specific treatment.
	SureSelect QXT P7 i5	No specific treatment.
	SureSelect QXT P7 i6	No specific treatment.
	SureSelect QXT P7 i7	No specific treatment.
	SureSelect QXT P7 i8	No specific treatment.
	SureSelect QXT P5 i13	No specific treatment.
	SureSelect QXT P5 i14	No specific treatment.

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SureSelect QXT Read Primer 1	No specific treatment.
SureSelect QXT Read Primer 2	No specific treatment.
SureSelect QXT Index Read Primer	No specific treatment.
SureSelect QXT Index 2 Read Primer NSQ	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

: <input checked="" type="checkbox"/> DMSO	Use an extinguishing agent suitable for the surrounding fire.
5X Herculase II Reaction Buffer	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.
SureSelect QXT Enzyme Mix ILM	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT Buffer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i2	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i3	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i4	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i5	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i6	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i7	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i8	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i13	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i14	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT Read Primer 1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT Read Primer 2	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT Index Read Primer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT Index 2 Read Primer NSQ	Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media

: <input checked="" type="checkbox"/> DMSO	None known.
5X Herculase II Reaction Buffer	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
Herculase II Fusion DNA Polymerase	None known.
SureSelect QXT Enzyme Mix ILM	None known.
SureSelect QXT Buffer	None known.
SureSelect QXT P7 i1	None known.
SureSelect QXT P7 i2	None known.
SureSelect QXT P7 i3	None known.
SureSelect QXT P7 i4	None known.
SureSelect QXT P7 i5	None known.
SureSelect QXT P7 i6	None known.
SureSelect QXT P7 i7	None known.
SureSelect QXT P7 i8	None known.
SureSelect QXT P5 i13	None known.
SureSelect QXT P5 i14	None known.
SureSelect QXT Read Primer 1	None known.

## SECTION 5: Firefighting measures

SureSelect QXT Read Primer 2	None known.
SureSelect QXT Index Read Primer	None known.
SureSelect QXT Index 2 Read Primer NSQ	None known.

### 5.2 Special hazards arising from the substance or mixture

#### Hazards from the substance or mixture

: DMSO	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.
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.
SureSelect QXT Enzyme Mix ILM	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i3	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i4	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i5	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i6	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i7	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i8	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P5 i13	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P5 i14	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Read Primer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Read Primer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Index Read Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT Index 2 Read Primer NSQ	In a fire or if heated, a pressure increase will occur and the container may burst.

#### Hazardous combustion products

: DMSO	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
5X Herculase II Reaction Buffer	Decomposition products may include the following materials:  carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials:




## SECTION 5: Firefighting measures

	carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials:
	carbon dioxide carbon monoxide
SureSelect QXT Enzyme Mix ILM	Decomposition products may include the following materials:
	carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
SureSelect QXT Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect QXT P7 i1	No specific data.
SureSelect QXT P7 i2	No specific data.
SureSelect QXT P7 i3	No specific data.
SureSelect QXT P7 i4	No specific data.
SureSelect QXT P7 i5	No specific data.
SureSelect QXT P7 i6	No specific data.
SureSelect QXT P7 i7	No specific data.
SureSelect QXT P7 i8	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	No specific data.
SureSelect QXT Index Read Primer	No specific data.
SureSelect QXT Index 2 Read Primer NSQ	No specific data.


### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

:  MSO	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.
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.
SureSelect QXT Enzyme Mix ILM	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT 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 QXT P7 i1	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 QXT P7 i2	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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SureSelect QXT P7 i3	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 QXT P7 i4	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 QXT P7 i5	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 QXT P7 i6	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 QXT P7 i7	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 QXT P7 i8	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 QXT P5 i13	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 QXT P5 i14	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 QXT Read Primer 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 QXT Read Primer 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 QXT Index Read 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.
SureSelect QXT Index 2 Read Primer NSQ	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters :  MSO	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.
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.
SureSelect QXT Enzyme Mix ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

## SECTION 5: Firefighting measures

	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 QXT 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 QXT P7 i1	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 QXT P7 i2	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 QXT P7 i3	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 QXT P7 i4	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 QXT P7 i5	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 QXT P7 i6	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 QXT P7 i7	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 QXT P7 i8	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 QXT P5 i13	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)

## SECTION 5: Firefighting measures

SureSelect QXT P5 i14	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 QXT Read Primer 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.
SureSelect QXT Read Primer 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 QXT Index Read 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.
SureSelect QXT Index 2 Read Primer NSQ	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


<b>For non-emergency personnel</b>	: DMSO	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.
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.
SureSelect QXT Enzyme Mix ILM		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect QXT Buffer		No action shall be taken involving any personal risk or

## SECTION 6: Accidental release measures

	without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i3	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i4	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i5	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i6	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i7	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P7 i8	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P5 i13	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT P5 i14	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT Read Primer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
SureSelect QXT Read Primer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

## SECTION 6: Accidental release measures

**For emergency responders**


		Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect QXT Index Read 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.
SureSelect QXT Index 2 Read Primer NSQ		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.
	:  MSO	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".
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".
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 Polymerase		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 QXT Enzyme Mix ILM		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 QXT 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 QXT P7 i1		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 QXT P7 i2		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 QXT P7 i3		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 QXT P7 i4		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 QXT P7 i5		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 QXT P7 i6		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 QXT P7 i7		If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and



## SECTION 6: Accidental release measures

	unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i8	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 QXT P5 i13	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 QXT P5 i14	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 QXT Read Primer 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 QXT Read Primer 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 QXT Index Read 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".
SureSelect QXT Index 2 Read Primer NSQ	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

	:  DMSO	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).
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).
SureSelect QXT Enzyme Mix ILM		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 QXT 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 QXT P7 i1		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 QXT P7 i2		Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

## SECTION 6: Accidental release measures

	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i3	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 QXT P7 i4	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 QXT P7 i5	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 QXT P7 i6	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 QXT P7 i7	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 QXT P7 i8	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 QXT P5 i13	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 QXT P5 i14	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 QXT Read Primer 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 QXT Read Primer 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 QXT Index Read 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).
SureSelect QXT Index 2 Read Primer NSQ	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up :  MSO

	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



## SECTION 6: Accidental release measures

100 mM dNTP Mix (25 mM each dNTP)	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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.
SureSelect QXT Enzyme Mix ILM	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect QXT 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 QXT P7 i1	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 QXT P7 i2	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 QXT P7 i3	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 QXT P7 i4	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 QXT P7 i5	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 QXT P7 i6	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 QXT P7 i7	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 QXT P7 i8	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 QXT P5 i13	Stop leak if without risk. Move containers from spill area.

## SECTION 6: Accidental release measures

	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 QXT P5 i14	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 QXT Read Primer 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 QXT Read Primer 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 QXT Index Read 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.
SureSelect QXT Index 2 Read Primer NSQ	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

<b>Protective measures</b>	: DMSO	Put on appropriate personal protective equipment (see Section 8).
5X Herculase II Reaction Buffer		Put on appropriate personal protective equipment (see Section 8).
100 mM dNTP Mix (25 mM each dNTP)		Put on appropriate personal protective equipment (see Section 8).
Herculase II Fusion DNA Polymerase		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Enzyme Mix ILM		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Buffer		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i1		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i2		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i3		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i4		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i5		Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i6		Put on appropriate personal protective equipment (see Section 8).

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SureSelect QXT P7 i7	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i8	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i13	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i14	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Read Primer 1	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Read Primer 2	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Index Read Primer	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT Index 2 Read Primer NSQ	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b> : DMSO	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
5X Herculase II Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
100 mM dNTP Mix (25 mM each dNTP)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Herculase II Fusion DNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT Enzyme Mix ILM	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect QXT 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 QXT P7 i1	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 QXT P7 i2	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

	<p>protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P7 i3	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P7 i4	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P7 i5	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P7 i6	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P7 i7	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P7 i8	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P5 i13	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT P5 i14	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT Read Primer 1	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect QXT Read Primer 2	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>

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SureSelect QXT Index Read 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.
SureSelect QXT Index 2 Read Primer NSQ	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

: MSO

	Storage temperature: -20°C (-4°F). 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	Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. 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.
100 mM dNTP Mix (25 mM each dNTP)	Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. 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.
SureSelect QXT Enzyme Mix ILM	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have



## SECTION 7: Handling and storage

	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 QXT 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 QXT P7 i1	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 QXT P7 i2	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 QXT P7 i3	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 QXT P7 i4	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 QXT P7 i5	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

## SECTION 7: Handling and storage

	appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT P7 i6	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 QXT P7 i7	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 QXT P7 i8	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 QXT P5 i13	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 QXT P5 i14	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 QXT Read Primer 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



## SECTION 7: Handling and storage

SureSelect QXT Read Primer 2	before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT Index Read Primer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect QXT Index 2 Read Primer NSQ	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

: <input checked="" type="checkbox"/> MSO	Industrial applications, Professional applications.
5X Herculase II Reaction Buffer	Industrial applications, Professional applications.
100 mM dNTP Mix (25 mM each dNTP)	Industrial applications, Professional applications.
Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.
SureSelect QXT Enzyme Mix ILM	Industrial applications, Professional applications.
SureSelect QXT Buffer	Industrial applications, Professional applications.
SureSelect QXT P7 i1	Industrial applications, Professional applications.
SureSelect QXT P7 i2	Industrial applications, Professional applications.
SureSelect QXT P7 i3	Industrial applications, Professional applications.
SureSelect QXT P7 i4	Industrial applications, Professional applications.
SureSelect QXT P7 i5	Industrial applications, Professional applications.
SureSelect QXT P7 i6	Industrial applications, Professional applications.
SureSelect QXT P7 i7	Industrial applications, Professional applications.
SureSelect QXT P7 i8	Industrial applications, Professional applications.
SureSelect QXT P5 i13	Industrial applications, Professional applications.
SureSelect QXT P5 i14	Industrial applications, Professional applications.
SureSelect QXT Read Primer 1	Industrial applications, Professional applications.
SureSelect QXT Read Primer 2	Industrial applications, Professional applications.
SureSelect QXT Index Read Primer	Industrial applications, Professional applications.
SureSelect QXT Index 2 Read Primer NSQ	Industrial applications, Professional applications.

## SECTION 7: Handling and storage

<b>Industrial sector specific solutions</b>	<b>DMSO</b>	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	SureSelect QXT P7 i1	Not applicable.
	SureSelect QXT P7 i2	Not applicable.
	SureSelect QXT P7 i3	Not applicable.
	SureSelect QXT P7 i4	Not applicable.
	SureSelect QXT P7 i5	Not applicable.
	SureSelect QXT P7 i6	Not applicable.
	SureSelect QXT P7 i7	Not applicable.
	SureSelect QXT P7 i8	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.
	SureSelect QXT Index Read Primer	Not applicable.
	SureSelect QXT Index 2 Read Primer NSQ	Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Herculase II Fusion DNA Polymerase Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
SureSelect QXT Enzyme Mix ILM Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
SureSelect QXT Buffer Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

**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

No DNELs/DMELs available.

## SECTION 8: Exposure controls/personal protection

### PNECs

No PNECs available

### 8.2 Exposure controls

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

### Individual protection measures

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

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

### Skin protection

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

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

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


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

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:  MSO	Liquid. [Clear.]
	5X Herculase II	Liquid.
	Reaction Buffer	
	100 mM dNTP Mix (25 mM each dNTP)	Liquid.
	Herculase II Fusion	Liquid.
	DNA Polymerase	
	SureSelect QXT	Liquid.
	Enzyme Mix ILM	
	SureSelect QXT Buffer	Liquid.
	SureSelect QXT P7 i1	Liquid.
	SureSelect QXT P7 i2	Liquid.
	SureSelect QXT P7 i3	Liquid.
	SureSelect QXT P7 i4	Liquid.
	SureSelect QXT P7 i5	Liquid.
	SureSelect QXT P7 i6	Liquid.
	SureSelect QXT P7 i7	Liquid.

## SECTION 9: Physical and chemical properties

	SureSelect QXT P7 i8	Liquid.
	SureSelect QXT P5 i13	Liquid.
	SureSelect QXT P5 i14	Liquid.
	SureSelect QXT Read Primer 1	Liquid.
	SureSelect QXT Read Primer 2	Liquid.
	SureSelect QXT Index Read Primer	Liquid.
	SureSelect QXT Index 2 Read Primer NSQ	Liquid.
<b>Colour</b>	: DMSO	Colourless.
	5X Herculase II Reaction Buffer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Index 2 Read Primer NSQ	Not available.
<b>Odour</b>	: DMSO	Odourless. [Slight]
	5X Herculase II Reaction Buffer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.

**SECTION 9: Physical and chemical properties**

		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer NSQ	Not available.
<b>Odour threshold</b>	:	☑MMSO	Not available.
		5X Herculase II Reaction Buffer	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer NSQ	Not available.
<b>pH</b>	:	☑MMSO	Not available.
		5X Herculase II Reaction Buffer	9.5 to 10.5
		100 mM dNTP Mix (25 mM each dNTP)	7.5
		Herculase II Fusion DNA Polymerase	8.2
		SureSelect QXT Enzyme Mix ILM	7 to 7.5
		SureSelect QXT Buffer	7 to 7.5
		SureSelect QXT P7 i1	7 to 7.5
		SureSelect QXT P7 i2	7 to 7.5
		SureSelect QXT P7 i3	7 to 7.5
		SureSelect QXT P7 i4	7 to 7.5
		SureSelect QXT P7 i5	7 to 7.5
		SureSelect QXT P7 i6	7 to 7.5
		SureSelect QXT P7 i7	7 to 7.5
		SureSelect QXT P7 i8	7
		SureSelect QXT P5 i13	7 to 7.5
		SureSelect QXT P5 i14	7 to 7.5
		SureSelect QXT Read Primer 1	7 to 7.5
		SureSelect QXT Read Primer 2	7 to 7.5
		SureSelect QXT Index Read Primer	7 to 7.5
		SureSelect QXT Index 2 Read Primer NSQ	7 to 7.5





## SECTION 9: Physical and chemical properties

	2 Read Primer NSQ	
<b>Melting point/freezing point</b>	: <input checked="" type="checkbox"/> DMSO	18.5°C
	5X Herculase II	Not available.
	Reaction Buffer	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect QXT	Not available.
	Enzyme Mix ILM	
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	0°C
	SureSelect QXT P7 i2	0°C
	SureSelect QXT P7 i3	0°C
	SureSelect QXT P7 i4	0°C
	SureSelect QXT P7 i5	0°C
	SureSelect QXT P7 i6	0°C
	SureSelect QXT P7 i7	0°C
	SureSelect QXT P7 i8	0°C
	SureSelect QXT P5 i13	0°C
	SureSelect QXT P5 i14	0°C
	SureSelect QXT Read Primer 1	0°C
SureSelect QXT Read Primer 2	0°C	
SureSelect QXT Index Read Primer	0°C	
SureSelect QXT Index	0°C	
2 Read Primer NSQ		
<b>Initial boiling point and boiling range</b>	: <input checked="" type="checkbox"/> DMSO	189°C
	5X Herculase II	Not available.
	Reaction Buffer	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect QXT	Not available.
	Enzyme Mix ILM	
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	100°C
	SureSelect QXT P7 i2	100°C
	SureSelect QXT P7 i3	100°C
	SureSelect QXT P7 i4	100°C
	SureSelect QXT P7 i5	100°C
	SureSelect QXT P7 i6	100°C
	SureSelect QXT P7 i7	100°C
	SureSelect QXT P7 i8	100°C
	SureSelect QXT P5 i13	100°C
	SureSelect QXT P5 i14	100°C
	SureSelect QXT Read Primer 1	100°C
SureSelect QXT Read Primer 2	100°C	
SureSelect QXT Index Read Primer	100°C	
SureSelect QXT Index	100°C	
2 Read Primer NSQ		

SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126

## SECTION 9: Physical and chemical properties

<b>Flash point</b>	:  DMSO	Closed cup: 87°C	
		Open cup: 87°C	
		5X Herculase II	Not available.
		Reaction Buffer	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	Not available.
		SureSelect QXT	Not available.
		Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
SureSelect QXT Read Primer 1	Not available.		
SureSelect QXT Read Primer 2	Not available.		
SureSelect QXT Index Read Primer	Not available.		
SureSelect QXT Index 2 Read Primer NSQ	Not available.		
<b>Evaporation rate</b>	:  DMSO	0.026 (butyl acetate = 1)	
		5X Herculase II	Not available.
		Reaction Buffer	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	Not available.
		SureSelect QXT	Not available.
		Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.		
SureSelect QXT Index Read Primer	Not available.		
SureSelect QXT Index 2 Read Primer NSQ	Not available.		

## SECTION 9: Physical and chemical properties

<b>Flammability (solid, gas)</b>	<b>:</b>	<input checked="" type="checkbox"/> MSO	Not applicable.
		5X Herculase II	Not applicable.
		Reaction Buffer	
		100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
		Herculase II Fusion	Not applicable.
		DNA Polymerase	
		SureSelect QXT	Not applicable.
		Enzyme Mix ILM	
		SureSelect QXT Buffer	Not applicable.
		SureSelect QXT P7 i1	Not applicable.
		SureSelect QXT P7 i2	Not applicable.
		SureSelect QXT P7 i3	Not applicable.
		SureSelect QXT P7 i4	Not applicable.
		SureSelect QXT P7 i5	Not applicable.
		SureSelect QXT P7 i6	Not applicable.
		SureSelect QXT P7 i7	Not applicable.
		SureSelect QXT P7 i8	Not applicable.
		SureSelect QXT P5 i13	Not applicable.
		SureSelect QXT P5 i14	Not applicable.
		SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	Not applicable.	
	SureSelect QXT Index Read Primer	Not applicable.	
	SureSelect QXT Index 2 Read Primer NSQ	Not applicable.	

<b>Upper/lower flammability or explosive limits</b>	<b>:</b>	<input checked="" type="checkbox"/> MSO	Lower: 2.6% Upper: 28.5%
		5X Herculase II	Not available.
		Reaction Buffer	
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		SureSelect QXT	Not available.
		Enzyme Mix ILM	
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.	
	SureSelect QXT Index Read Primer	Not available.	
	SureSelect QXT Index 2 Read Primer NSQ	Not available.	

## SECTION 9: Physical and chemical properties

<b>Vapour pressure</b>	:	☑ DMSO	0.056 kPa [room temperature]
		5X Herculase II	Not available.
		Reaction Buffer	
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		SureSelect QXT	Not available.
		Enzyme Mix ILM	
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer NSQ	Not available.
<b>Vapour density</b>	:	☑ DMSO	2.7 [Air = 1]
		5X Herculase II	Not available.
		Reaction Buffer	
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		SureSelect QXT	Not available.
		Enzyme Mix ILM	
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer NSQ	Not available.

## SECTION 9: Physical and chemical properties

<b>Relative density</b>	: <input checked="" type="checkbox"/> DMSO	1.1
	5X Herculase II Reaction Buffer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Index 2 Read Primer NSQ	Not available.
<b>Solubility(ies)</b>	: <input checked="" type="checkbox"/> DMSO	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.
	100 mM dNTP Mix (25 mM each dNTP)	Easily soluble in the following materials: cold water and hot water.
	Herculase II Fusion DNA Polymerase	Soluble in the following materials: cold water and hot water.
	SureSelect QXT Enzyme Mix ILM	Soluble in the following materials: cold water and hot water.
	SureSelect QXT Buffer	Soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i1	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i2	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i3	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i4	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i5	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i6	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i7	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i8	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i13	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i14	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT Read Primer 1	Easily soluble in the following materials: cold water and hot water.



## SECTION 9: Physical and chemical properties

	SureSelect QXT Read Primer 2	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT Index Read Primer	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT Index 2 Read Primer NSQ	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: DMSO	-1.35
	5X Herculase II Reaction Buffer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Index 2 Read Primer NSQ	Not available.
<b>Auto-ignition temperature</b>	: DMSO	300 to 302°C
	5X Herculase II Reaction Buffer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Index	Not available.

## SECTION 9: Physical and chemical properties

	2 Read Primer NSQ	
<b>Decomposition temperature</b>	: <input checked="" type="checkbox"/> DMSO	140 to 189°C
	5X Herculase II	Not available.
	Reaction Buffer	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect QXT	Not available.
	Enzyme Mix ILM	
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.	
SureSelect QXT Index Read Primer	Not available.	
SureSelect QXT Index	Not available.	
2 Read Primer NSQ		
<b>Viscosity</b>	: <input checked="" type="checkbox"/> DMSO	Dynamic (room temperature): 2.14 mPa·s
	5X Herculase II	Not available.
	Reaction Buffer	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect QXT	Not available.
	Enzyme Mix ILM	
	SureSelect QXT Buffer	Not available.
	SureSelect QXT P7 i1	Not available.
	SureSelect QXT P7 i2	Not available.
	SureSelect QXT P7 i3	Not available.
	SureSelect QXT P7 i4	Not available.
	SureSelect QXT P7 i5	Not available.
	SureSelect QXT P7 i6	Not available.
	SureSelect QXT P7 i7	Not available.
	SureSelect QXT P7 i8	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.	
SureSelect QXT Index Read Primer	Not available.	
SureSelect QXT Index	Not available.	
2 Read Primer NSQ		

## SECTION 9: Physical and chemical properties


<b>Explosive properties</b>	:	DMSO	Not available.
		5X Herculase II	Not available.
		Reaction Buffer	
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		SureSelect QXT	Not available.
		Enzyme Mix ILM	
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer NSQ	Not available.

<b>Oxidising properties</b>	:	DMSO	Not available.
		5X Herculase II	Not available.
		Reaction Buffer	
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		SureSelect QXT	Not available.
		Enzyme Mix ILM	
		SureSelect QXT Buffer	Not available.
		SureSelect QXT P7 i1	Not available.
		SureSelect QXT P7 i2	Not available.
		SureSelect QXT P7 i3	Not available.
		SureSelect QXT P7 i4	Not available.
		SureSelect QXT P7 i5	Not available.
		SureSelect QXT P7 i6	Not available.
		SureSelect QXT P7 i7	Not available.
		SureSelect QXT P7 i8	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Index 2 Read Primer NSQ	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	:  DMSO	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.
	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.
	SureSelect QXT Enzyme Mix ILM	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT Buffer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i3	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i4	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i5	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i6	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i7	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P7 i8	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P5 i13	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT P5 i14	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT Read Primer 1	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT Read Primer 2	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT Index Read Primer	No specific test data related to reactivity available for this product or its ingredients.
	SureSelect QXT Index 2 Read Primer NSQ	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	:  DMSO	The product is stable.
	5X Herculase II Reaction Buffer	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.
	SureSelect QXT Enzyme Mix ILM	The product is stable.
	SureSelect QXT Buffer	The product is stable.
	SureSelect QXT P7 i1	The product is stable.
	SureSelect QXT P7 i2	The product is stable.
	SureSelect QXT P7 i3	The product is stable.
	SureSelect QXT P7 i4	The product is stable.
	SureSelect QXT P7 i5	The product is stable.
	SureSelect QXT P7 i6	The product is stable.
	SureSelect QXT P7 i7	The product is stable.
	SureSelect QXT P7 i8	The product is stable.
	SureSelect QXT P5 i13	The product is stable.
	SureSelect QXT P5 i14	The product is stable.

## SECTION 10: Stability and reactivity

SureSelect QXT Read Primer 1	The product is stable.
SureSelect QXT Read Primer 2	The product is stable.
SureSelect QXT Index Read Primer	The product is stable.
SureSelect QXT Index 2 Read Primer NSQ	The product is stable.

### 10.3 Possibility of hazardous reactions

: DMSO	Under normal conditions of storage and use, hazardous reactions will not occur.
5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
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.
SureSelect QXT Enzyme Mix ILM	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i3	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i4	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i5	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i6	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i7	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i8	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P5 i13	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P5 i14	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT Read Primer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT Read Primer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT Index Read Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT Index 2 Read Primer NSQ	Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

: DMSO	No specific data.
5X Herculase II Reaction Buffer	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	No specific data.
SureSelect QXT P7 i1	No specific data.



## SECTION 10: Stability and reactivity

SureSelect QXT P7 i2	No specific data.
SureSelect QXT P7 i3	No specific data.
SureSelect QXT P7 i4	No specific data.
SureSelect QXT P7 i5	No specific data.
SureSelect QXT P7 i6	No specific data.
SureSelect QXT P7 i7	No specific data.
SureSelect QXT P7 i8	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	No specific data.
SureSelect QXT Index Read Primer	No specific data.
SureSelect QXT Index 2 Read Primer NSQ	No specific data.

### 10.5 Incompatible materials

: DMSO	May react or be incompatible with oxidising materials.
5X Herculase II Reaction Buffer	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.
SureSelect QXT Enzyme Mix ILM	May react or be incompatible with oxidising materials.
SureSelect QXT Buffer	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i1	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i2	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i3	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i4	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i5	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i6	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i7	May react or be incompatible with oxidising materials.
SureSelect QXT P7 i8	May react or be incompatible with oxidising materials.
SureSelect QXT P5 i13	May react or be incompatible with oxidising materials.
SureSelect QXT P5 i14	May react or be incompatible with oxidising materials.
SureSelect QXT Read Primer 1	May react or be incompatible with oxidising materials.
SureSelect QXT Read Primer 2	May react or be incompatible with oxidising materials.
SureSelect QXT Index Read Primer	May react or be incompatible with oxidising materials.
SureSelect QXT Index 2 Read Primer NSQ	May react or be incompatible with oxidising materials.

### 10.6 Hazardous decomposition products

: DMSO	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.
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.
SureSelect QXT Enzyme Mix ILM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 10: Stability and reactivity

SureSelect QXT P7 i2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i5	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i6	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i7	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P7 i8	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i13	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i14	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT Read Primer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT Read Primer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT Index Read Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT Index 2 Read Primer NSQ	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
<b>DMSO</b> Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -
<b>5X Herculase II Reaction Buffer</b> Trometamol	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 5000 mg/kg	- -
Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
Hexadecan-1-ol, ethoxylated	LD50 Oral	Rat	2500 mg/kg	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>DMSO</b> Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-
<b>5X Herculase II Reaction Buffer</b>					

## SECTION 11: Toxicological information

Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	- -	25 Percent 500 milligrams	- -
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### Sensitiser

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
5X Herculanase II Reaction Buffer Trometamol	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

☑ DMSO	Routes of entry anticipated: Oral, Dermal, Inhalation.
5X Herculanase II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
Herculanase II Fusion DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect QXT Enzyme Mix ILM	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect QXT Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect QXT P7 i1	Not available.
SureSelect QXT P7 i2	Not available.
SureSelect QXT P7 i3	Not available.
SureSelect QXT P7 i4	Not available.
SureSelect QXT P7 i5	Not available.
SureSelect QXT P7 i6	Not available.
SureSelect QXT P7 i7	Not available.
SureSelect QXT P7 i8	Not available.
SureSelect QXT P5 i13	Not available.
SureSelect QXT P5 i14	Not available.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	Not available.
SureSelect QXT Index Read Primer	Not available.
SureSelect QXT Index 2 Read Primer NSQ	Not available.

### Potential acute health effects

## SECTION 11: Toxicological information

<b>Inhalation</b>	:	DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Ingestion</b>	:	DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Skin contact</b>	: <b>DMSO</b>	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	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.
	SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
	SureSelect QXT Buffer	No known significant effects or critical hazards.
	SureSelect QXT P7 i1	No known significant effects or critical hazards.
	SureSelect QXT P7 i2	No known significant effects or critical hazards.
	SureSelect QXT P7 i3	No known significant effects or critical hazards.
	SureSelect QXT P7 i4	No known significant effects or critical hazards.
	SureSelect QXT P7 i5	No known significant effects or critical hazards.
	SureSelect QXT P7 i6	No known significant effects or critical hazards.
	SureSelect QXT P7 i7	No known significant effects or critical hazards.
	SureSelect QXT P7 i8	No known significant effects or critical hazards.
	SureSelect QXT P5 i13	No known significant effects or critical hazards.
	SureSelect QXT P5 i14	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Eye contact</b>	: <b>DMSO</b>	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	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.
	SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
	SureSelect QXT Buffer	No known significant effects or critical hazards.
	SureSelect QXT P7 i1	No known significant effects or critical hazards.
	SureSelect QXT P7 i2	No known significant effects or critical hazards.
	SureSelect QXT P7 i3	No known significant effects or critical hazards.
	SureSelect QXT P7 i4	No known significant effects or critical hazards.
	SureSelect QXT P7 i5	No known significant effects or critical hazards.
	SureSelect QXT P7 i6	No known significant effects or critical hazards.
	SureSelect QXT P7 i7	No known significant effects or critical hazards.
	SureSelect QXT P7 i8	No known significant effects or critical hazards.
	SureSelect QXT P5 i13	No known significant effects or critical hazards.
	SureSelect QXT P5 i14	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

## SECTION 11: Toxicological information

<b>Inhalation</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.
<b>Ingestion</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.



## SECTION 11: Toxicological information

<b>Skin contact</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	No specific data.

<b>Eye contact</b>	:	DMSO	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect QXT Enzyme Mix ILM	No specific data.
		SureSelect QXT Buffer	No specific data.
		SureSelect QXT P7 i1	No specific data.
		SureSelect QXT P7 i2	No specific data.
		SureSelect QXT P7 i3	No specific data.
		SureSelect QXT P7 i4	No specific data.
		SureSelect QXT P7 i5	No specific data.
		SureSelect QXT P7 i6	No specific data.
		SureSelect QXT P7 i7	No specific data.
		SureSelect QXT P7 i8	No specific data.
		SureSelect QXT P5 i13	No specific data.
		SureSelect QXT P5 i14	No specific data.
		SureSelect QXT Read Primer 1	No specific data.
		SureSelect QXT Read Primer 2	No specific data.
		SureSelect QXT Index Read Primer	No specific data.
		SureSelect QXT Index 2 Read Primer NSQ	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.

## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	:	☑ DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	☑ DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

	SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> DMSO	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	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.
	SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
	SureSelect QXT Buffer	No known significant effects or critical hazards.
	SureSelect QXT P7 i1	No known significant effects or critical hazards.
	SureSelect QXT P7 i2	No known significant effects or critical hazards.
	SureSelect QXT P7 i3	No known significant effects or critical hazards.
	SureSelect QXT P7 i4	No known significant effects or critical hazards.
	SureSelect QXT P7 i5	No known significant effects or critical hazards.
	SureSelect QXT P7 i6	No known significant effects or critical hazards.
	SureSelect QXT P7 i7	No known significant effects or critical hazards.
	SureSelect QXT P7 i8	No known significant effects or critical hazards.
	SureSelect QXT P5 i13	No known significant effects or critical hazards.
	SureSelect QXT P5 i14	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> DMSO	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	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.
	SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
	SureSelect QXT Buffer	No known significant effects or critical hazards.
	SureSelect QXT P7 i1	No known significant effects or critical hazards.
	SureSelect QXT P7 i2	No known significant effects or critical hazards.
	SureSelect QXT P7 i3	No known significant effects or critical hazards.
	SureSelect QXT P7 i4	No known significant effects or critical hazards.
	SureSelect QXT P7 i5	No known significant effects or critical hazards.
	SureSelect QXT P7 i6	No known significant effects or critical hazards.
	SureSelect QXT P7 i7	No known significant effects or critical hazards.
	SureSelect QXT P7 i8	No known significant effects or critical hazards.
	SureSelect QXT P5 i13	No known significant effects or critical hazards.
	SureSelect QXT P5 i14	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Developmental effects</b>	:	<input checked="" type="checkbox"/> DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	<input checked="" type="checkbox"/> DMSO	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	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.
		SureSelect QXT Enzyme Mix ILM	No known significant effects or critical hazards.
		SureSelect QXT Buffer	No known significant effects or critical hazards.
		SureSelect QXT P7 i1	No known significant effects or critical hazards.
		SureSelect QXT P7 i2	No known significant effects or critical hazards.
		SureSelect QXT P7 i3	No known significant effects or critical hazards.
		SureSelect QXT P7 i4	No known significant effects or critical hazards.
		SureSelect QXT P7 i5	No known significant effects or critical hazards.
		SureSelect QXT P7 i6	No known significant effects or critical hazards.
		SureSelect QXT P7 i7	No known significant effects or critical hazards.
		SureSelect QXT P7 i8	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.
		SureSelect QXT P5 i14	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 1	No known significant effects or critical hazards.
		SureSelect QXT Read Primer 2	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
		SureSelect QXT Index 2 Read Primer NSQ	No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>DMSO</b> Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water Acute LC50 34000000 µg/l Fresh water Chronic NOEC 100 µl/L Marine water	Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas Algae - Ulva lactuca	48 hours 96 hours 72 hours
<b>5X Herculase II Reaction Buffer</b> Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
Ammonium sulphate	Acute LC50 2.6 mg/l Fresh water Acute LC50 14000 µg/l Fresh water Acute LC50 68 µg/l Fresh water Chronic NOEC 7.5 mg/l Marine water	Crustaceans - Ceriodaphnia dubia - Young Daphnia - Daphnia magna - Young Fish - Oncorhynchus gorbuscha - Alevin Algae - Phaeodactylum tricornutum - Exponential growth phase	48 hours 48 hours 96 hours 96 hours
Hexadecan-1-ol, ethoxylated	Chronic NOEC 143 µg/l Marine water Acute LC50 330000 to 1000000 µg/l Marine water	Fish - Salmo salar - Post-smolt Crustaceans - Crangon crangon - Adult	5 weeks 48 hours

### 12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>5X Herculase II Reaction Buffer</b> Ammonium sulphate	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>DMSO</b> Dimethyl sulfoxide	-1.35	3.16	low
<b>5X Herculase II Reaction Buffer</b> Trometamol	-1.56	-	low
Ammonium sulphate	-5.1	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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

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

#### 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** : Not regulated.

**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 Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

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

#### 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.

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	<b>:</b> <input checked="" type="checkbox"/> MSO	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	SureSelect QXT P7 i1	Not applicable.
	SureSelect QXT P7 i2	Not applicable.
	SureSelect QXT P7 i3	Not applicable.
	SureSelect QXT P7 i4	Not applicable.
	SureSelect QXT P7 i5	Not applicable.
	SureSelect QXT P7 i6	Not applicable.
	SureSelect QXT P7 i7	Not applicable.
	SureSelect QXT P7 i8	Not applicable.



## SECTION 15: Regulatory information

SureSelect QXT P5 i13	Not applicable.
SureSelect QXT P5 i14	Not applicable.
SureSelect QXT Read Primer 1	Not applicable.
SureSelect QXT Read Primer 2	Not applicable.
SureSelect QXT Index Read Primer	Not applicable.
SureSelect QXT Index 2 Read Primer NSQ	Not applicable.

### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

### Ozone depleting substances (1005/2009/EU)

Not listed.

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

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 (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

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

SureSelect QXT Library Prep Kit -NSQ-Box 2-16 Reactions, Part Number 5500-0126

## SECTION 15: Regulatory information

**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]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### 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

✓ Herculase II Reaction Buffer H315 H319 H335 H400 H412	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
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### Full text of classifications [CLP/GHS]

✓ Herculase II Reaction Buffer Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
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#### Notice to reader

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