

# SAFETY DATA SHEET

SureSelect QXT Library Prep Kit -ILM-Box 2-96 Reactions, Part Number 5500-0121

## Section 1. Identification

### 1.1 Product identifier

<b>Product name</b>	: SureSelect QXT Library Prep Kit -ILM-Box 2-96 Reactions, Part Number 5500-0121
<b>Part no. (chemical kit)</b>	: 5500-0121
<b>Part no.</b>	: DMSO 600260-53
	SureSelect QXT Enzyme Mix ILM 5190-7052
	SureSelect QXT Buffer 5190-7053
	Herculase II Fusion DNA Polymerase 600677-51 / 5190-7751
	SureSelect QXT Index Read Primer 5190-7057
	SureSelect QXT Read Primer 1 5190-7055
	SureSelect QXT Read Primer 2 5190-7056
	SureSelect QXT P7 i1 5190-7061
	SureSelect QXT P7 i2 5190-7062
	SureSelect QXT P7 i3 5190-7063
	SureSelect QXT P7 i4 5190-7064
	SureSelect QXT P7 i5 5190-7065
	SureSelect QXT P7 i6 5190-7066
	SureSelect QXT P7 i7 5190-7067
	SureSelect QXT P7 i8 5190-7068
	SureSelect QXT P7 i9 5190-7069
	SureSelect QXT P7 i10 5190-7070
	SureSelect QXT P7 i11 5190-7071
	SureSelect QXT P7 i12 5190-7072
	SureSelect QXT P5 i13 5190-7073
	SureSelect QXT P5 i14 5190-7074
	SureSelect QXT P5 i15 5190-7075
	SureSelect QXT P5 i16 5190-7076
	SureSelect QXT P5 i17 5190-7077
	SureSelect QXT P5 i18 5190-7078
	SureSelect QXT P5 i19 5190-7079
	SureSelect QXT P5 i20 5190-7080
	100 mM dNTP Mix (25 mM each dNTP) 200418-51 / 5190-7750
	5X Herculase II Reaction Buffer 600675-52

**Validation date** : 5/22/2018

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

<b>Material uses</b>	: Analytical reagent.
	DMSO 1 ml
	SureSelect QXT Enzyme Mix ILM 0.3 ml (96 reactions)
	SureSelect QXT Buffer 2.6 ml (96 reactions)
	Herculase II Fusion DNA Polymerase 0.2 - 0.31 ml (200 reactions)
	SureSelect QXT Index Read Primer 1.6 ml (96 reactions)
	SureSelect QXT Read Primer 1 0.93 ml (96 reactions)
	SureSelect QXT Read Primer 2 1.6 ml (96 reactions)
	SureSelect QXT P7 i1 0.04 ml (96 reactions)
	SureSelect QXT P7 i2 0.04 ml (96 reactions)
	SureSelect QXT P7 i3 0.04 ml (96 reactions)
	SureSelect QXT P7 i4 0.04 ml (96 reactions)
	SureSelect QXT P7 i5 0.04 ml (96 reactions)
	SureSelect QXT P7 i6 0.04 ml (96 reactions)
	SureSelect QXT P7 i7 0.04 ml (96 reactions)
	SureSelect QXT P7 i8 0.04 ml (96 reactions)
	SureSelect QXT P7 i9 0.04 ml (96 reactions)
	SureSelect QXT P7 i10 0.04 ml (96 reactions)

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SureSelect QXT P7 i11	0.04 ml (96 reactions)
SureSelect QXT P7 i12	0.04 ml (96 reactions)
SureSelect QXT P5 i13	0.06 ml (96 reactions)
SureSelect QXT P5 i14	0.06 ml (96 reactions)
SureSelect QXT P5 i15	0.06 ml (96 reactions)
SureSelect QXT P5 i16	0.06 ml (96 reactions)
SureSelect QXT P5 i17	0.06 ml (96 reactions)
SureSelect QXT P5 i18	0.06 ml (96 reactions)
SureSelect QXT P5 i19	0.06 ml (96 reactions)
SureSelect QXT P5 i20	0.06 ml (96 reactions)
100 mM dNTP Mix (25 mM each dNTP)	0.1 ml
5X Herculase II Reaction Buffer	1.5 ml

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

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

### 1.4 Emergency telephone number

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

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b>	: <input checked="" type="checkbox"/> MSO	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	SureSelect QXT Enzyme Mix ILM	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	SureSelect QXT Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Herculase II Fusion DNA Polymerase	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	SureSelect QXT Index Read Primer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureSelect QXT Read Primer 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureSelect QXT Read Primer 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	SureSelect QXT P7 i1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

## Section 2. Hazards identification

SureSelect QXT P7 i2	other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i3	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i4	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i5	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i6	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i7	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i8	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i9	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i10	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i11	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This

## Section 2. Hazards identification

	SDS should be retained and available for employees and other users of this product.
SureSelect QXT P7 i12	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i13	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i14	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i15	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i16	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i17	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i18	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i19	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
SureSelect QXT P5 i20	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
100 mM dNTP Mix (25 mM each dNTP)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to

## Section 2. Hazards identification

the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

5X Herculanase II Reaction Buffer

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

#### **DMSO**

H227

FLAMMABLE LIQUIDS - Category 4

H320

EYE IRRITATION - Category 2B

#### **SureSelect QXT Enzyme Mix**

ILM

H320

EYE IRRITATION - Category 2B

#### **SureSelect QXT Buffer**

H320

EYE IRRITATION - Category 2B

#### **Herculanase II Fusion DNA**

**Polymerase**

H320

EYE IRRITATION - Category 2B

#### **Ingredients of unknown toxicity**

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%
Herculanase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60%
	Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
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%
	Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
5X Herculanase 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%


### 2.2 GHS label elements

#### **Signal word**

DMSO	Warning
SureSelect QXT Enzyme Mix ILM	Warning
SureSelect QXT Buffer	Warning
Herculanase II Fusion DNA Polymerase	Warning
SureSelect QXT Index Read Primer	No signal word.
SureSelect QXT Read Primer 1	No signal word.
SureSelect QXT Read Primer 2	No signal word.



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	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 P7 i9	No signal word.
	SureSelect QXT P7 i10	No signal word.
	SureSelect QXT P7 i11	No signal word.
	SureSelect QXT P7 i12	No signal word.
	SureSelect QXT P5 i13	No signal word.
	SureSelect QXT P5 i14	No signal word.
	SureSelect QXT P5 i15	No signal word.
	SureSelect QXT P5 i16	No signal word.
	SureSelect QXT P5 i17	No signal word.
	SureSelect QXT P5 i18	No signal word.
	SureSelect QXT P5 i19	No signal word.
	SureSelect QXT P5 i20	No signal word.
	100 mM dNTP Mix (25 mM each dNTP)	No signal word.
	5X Herculase II Reaction Buffer	No signal word.
<b>Hazard statements</b>	 DMSO	H227 - Combustible liquid. H320 - Causes eye irritation.
	SureSelect QXT Enzyme Mix ILM	H320 - Causes eye irritation.
	SureSelect QXT Buffer	H320 - Causes eye irritation.
	Herculase II Fusion DNA Polymerase	H320 - Causes eye irritation.
	SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
	SureSelect QXT P7 i10	No known significant effects or critical hazards.
	SureSelect QXT P7 i11	No known significant effects or critical hazards.
	SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
	SureSelect QXT P5 i16	No known significant effects or critical hazards.
	SureSelect QXT P5 i17	No known significant effects or critical hazards.
	SureSelect QXT P5 i18	No known significant effects or critical hazards.
	SureSelect QXT P5 i19	No known significant effects or critical hazards.
	SureSelect QXT P5 i20	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.

### Precautionary statements

## Section 2. Hazards identification

### Prevention

: DMSO

SureSelect QXT Enzyme Mix ILM  
 SureSelect QXT Buffer  
 Herculase II Fusion DNA  
 Polymerase

SureSelect QXT Index Read  
 Primer

SureSelect QXT Read Primer 1  
 SureSelect QXT Read Primer 2

SureSelect QXT P7 i1

SureSelect QXT P7 i2

SureSelect QXT P7 i3

SureSelect QXT P7 i4

SureSelect QXT P7 i5

SureSelect QXT P7 i6

SureSelect QXT P7 i7

SureSelect QXT P7 i8

SureSelect QXT P7 i9

SureSelect QXT P7 i10

SureSelect QXT P7 i11

SureSelect QXT P7 i12

SureSelect QXT P5 i13

SureSelect QXT P5 i14

SureSelect QXT P5 i15

SureSelect QXT P5 i16

SureSelect QXT P5 i17

SureSelect QXT P5 i18

SureSelect QXT P5 i19

SureSelect QXT P5 i20

100 mM dNTP Mix (25 mM each  
 dNTP)

5X Herculase II Reaction Buffer

P280 - Wear protective gloves. Wear eye or face  
 protection.

P210 - Keep away from flames and hot surfaces. -  
 No smoking.

P264 - Wash hands thoroughly after handling.

P264 - Wash hands thoroughly after handling.

P264 - Wash hands thoroughly after handling.

P264 - Wash hands thoroughly after handling.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

### Response

: DMSO

SureSelect QXT Enzyme Mix ILM

SureSelect QXT Buffer

Herculase II Fusion DNA  
 Polymerase

P305 + P351 + P338 - IF IN EYES: Rinse  
 cautiously with water for several minutes. Remove  
 contact lenses, if present and easy to do. Continue  
 rinsing.

P337 + P313 - If eye irritation persists: Get medical  
 attention.

P305 + P351 + P338 - IF IN EYES: Rinse  
 cautiously with water for several minutes. Remove  
 contact lenses, if present and easy to do. Continue  
 rinsing.

P337 + P313 - If eye irritation persists: Get medical  
 attention.


P305 + P351 + P338 - IF IN EYES: Rinse  
 cautiously with water for several minutes. Remove  
 contact lenses, if present and easy to do. Continue  
 rinsing.

P337 + P313 - If eye irritation persists: Get medical  
 attention.

P305 + P351 + P338 - IF IN EYES: Rinse  
 cautiously with water for several minutes. Remove  
 contact lenses, if present and easy to do. Continue  
 rinsing.

P337 + P313 - If eye irritation persists: Get medical

## Section 2. Hazards identification

	SureSelect QXT Index Read Primer	attention. Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	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 P7 i9	Not applicable.
	SureSelect QXT P7 i10	Not applicable.
	SureSelect QXT P7 i11	Not applicable.
	SureSelect QXT P7 i12	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT P5 i15	Not applicable.
	SureSelect QXT P5 i16	Not applicable.
	SureSelect QXT P5 i17	Not applicable.
	SureSelect QXT P5 i18	Not applicable.
	SureSelect QXT P5 i19	Not applicable.
	SureSelect QXT P5 i20	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculanase II Reaction Buffer	Not applicable.
<b>Storage</b>	 DMSO	P403 - Store in a well-ventilated place. P235 - Keep cool.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	Herculanase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Index Read Primer	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	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 P7 i9	Not applicable.
	SureSelect QXT P7 i10	Not applicable.
	SureSelect QXT P7 i11	Not applicable.
	SureSelect QXT P7 i12	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT P5 i15	Not applicable.
	SureSelect QXT P5 i16	Not applicable.
	SureSelect QXT P5 i17	Not applicable.
	SureSelect QXT P5 i18	Not applicable.
	SureSelect QXT P5 i19	Not applicable.
	SureSelect QXT P5 i20	Not applicable.
	100 mM dNTP Mix (25 mM each	Not applicable.



## Section 2. Hazards identification

### Disposal

dNTP)		
5X Herculase II Reaction Buffer		Not applicable.
: DMSO		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
SureSelect QXT Enzyme Mix ILM		Not applicable.
SureSelect QXT Buffer		Not applicable.
Herculase II Fusion DNA		Not applicable.
Polymerase		
SureSelect QXT Index Read Primer		Not applicable.
SureSelect QXT Read Primer 1		Not applicable.
SureSelect QXT Read Primer 2		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 P7 i9		Not applicable.
SureSelect QXT P7 i10		Not applicable.
SureSelect QXT P7 i11		Not applicable.
SureSelect QXT P7 i12		Not applicable.
SureSelect QXT P5 i13		Not applicable.
SureSelect QXT P5 i14		Not applicable.
SureSelect QXT P5 i15		Not applicable.
SureSelect QXT P5 i16		Not applicable.
SureSelect QXT P5 i17		Not applicable.
SureSelect QXT P5 i18		Not applicable.
SureSelect QXT P5 i19		Not applicable.
SureSelect QXT P5 i20		Not applicable.
100 mM dNTP Mix (25 mM each dNTP)		Not applicable.

### Supplemental label elements

: DMSO		Not applicable.
SureSelect QXT Enzyme Mix ILM		None known.
SureSelect QXT Buffer		None known.
Herculase II Fusion DNA		None known.
Polymerase		
SureSelect QXT Index Read Primer		None known.
SureSelect QXT Read Primer 1		None known.
SureSelect QXT Read Primer 2		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 P7 i9		None known.
SureSelect QXT P7 i10		None known.
SureSelect QXT P7 i11		None known.
SureSelect QXT P7 i12		None known.
SureSelect QXT P5 i13		None known.
SureSelect QXT P5 i14		None known.

## Section 2. Hazards identification

SureSelect QXT P5 i15	None known.
SureSelect QXT P5 i16	None known.
SureSelect QXT P5 i17	None known.
SureSelect QXT P5 i18	None known.
SureSelect QXT P5 i19	None known.
SureSelect QXT P5 i20	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
5X Herculanase II Reaction Buffer	None known.

### 2.3 Other hazards

#### Hazards not otherwise classified

: DMSO	None known.
SureSelect QXT Enzyme Mix ILM	None known.
SureSelect QXT Buffer	None known.
Herculanase II Fusion DNA Polymerase	None known.
SureSelect QXT Index Read Primer	None known.
SureSelect QXT Read Primer 1	None known.
SureSelect QXT Read Primer 2	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 P7 i9	None known.
SureSelect QXT P7 i10	None known.
SureSelect QXT P7 i11	None known.
SureSelect QXT P7 i12	None known.
SureSelect QXT P5 i13	None known.
SureSelect QXT P5 i14	None known.
SureSelect QXT P5 i15	None known.
SureSelect QXT P5 i16	None known.
SureSelect QXT P5 i17	None known.
SureSelect QXT P5 i18	None known.
SureSelect QXT P5 i19	None known.
SureSelect QXT P5 i20	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
5X Herculanase II Reaction Buffer	None known.

## Section 3. Composition/information on ingredients

Substance/mixture	: DMSO	Substance
	SureSelect QXT Enzyme Mix ILM	Mixture
	SureSelect QXT Buffer	Mixture
	Herculase II Fusion DNA Polymerase	Mixture
	SureSelect QXT Index Read Primer	Mixture
	SureSelect QXT Read Primer 1	Mixture
	SureSelect QXT Read Primer 2	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

## Section 3. Composition/information on ingredients

SureSelect QXT P7 i8	Mixture
SureSelect QXT P7 i9	Mixture
SureSelect QXT P7 i10	Mixture
SureSelect QXT P7 i11	Mixture
SureSelect QXT P7 i12	Mixture
SureSelect QXT P5 i13	Mixture
SureSelect QXT P5 i14	Mixture
SureSelect QXT P5 i15	Mixture
SureSelect QXT P5 i16	Mixture
SureSelect QXT P5 i17	Mixture
SureSelect QXT P5 i18	Mixture
SureSelect QXT P5 i19	Mixture
SureSelect QXT P5 i20	Mixture
100 mM dNTP Mix (25 mM each dNTP)	Mixture
5X Herculanase II Reaction Buffer	Mixture

Ingredient name	%	CAS number
<b>DMSO</b> Dimethyl sulfoxide	100	67-68-5
<b>SureSelect QXT Enzyme Mix ILM</b> Glycerol	≥25 - ≤50	56-81-5
Potassium chloride	≤3	7447-40-7
<b>SureSelect QXT Buffer</b> Glycerol	≥50 - ≤75	56-81-5
<b>Herculanase II Fusion DNA Polymerase</b> Glycerol	≥50 - ≤75	56-81-5
<b>5X Herculanase II Reaction Buffer</b> Trometamol	≤3	77-86-1
Hexadecan-1-ol, ethoxylated	≤3	9004-95-9

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

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

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

#### Eye contact

: **DMSO**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

SureSelect 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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

SureSelect QXT Buffer

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

## Section 4. First aid measures

Herculase II Fusion DNA  
Polymerase

Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

SureSelect 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 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 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.

SureSelect QXT P7 i9

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 i10

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 P7 i11	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 i12	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 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 P5 i15	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 i16	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 i17	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 i18	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 i19	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 i20	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.
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.

### Inhalation

:  DMSO

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

## Section 4. First aid measures

SureSelect QXT Enzyme Mix ILM	collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SureSelect QXT Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Herculase II Fusion DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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 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 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



## Section 4. First aid measures

SureSelect QXT P7 i6	position comfortable for breathing. Get medical attention if 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 P7 i7	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i8	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i9	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i10	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i11	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P7 i12	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 P5 i15	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P5 i16	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P5 i17	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P5 i18	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P5 i19	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect QXT P5 i20	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
100 mM dNTP Mix (25 mM each dNTP)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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

## Section 4. First aid measures

### Skin contact

: DMSO

to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SureSelect QXT Enzyme Mix ILM

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SureSelect QXT Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Herculase II Fusion DNA Polymerase

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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 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 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 contaminated clothing and shoes. Get medical attention if symptoms occur.


SureSelect QXT P7 i9

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect QXT P7 i10

Flush contaminated skin with plenty of water.

## Section 4. First aid measures

SureSelect QXT P7 i11	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P7 i12	Flush contaminated skin with plenty of water. Remove 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 P5 i15	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i16	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i17	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i18	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i19	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect QXT P5 i20	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.
5X Herculase II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b> :  DMSO	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SureSelect QXT Enzyme Mix ILM	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

## Section 4. First aid measures

SureSelect QXT Buffer

Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Herculase II Fusion DNA Polymerase

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect QXT Index Read Primer

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

## Section 4. First aid measures

SureSelect QXT P7 i1

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.

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 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

## Section 4. First aid measures

SureSelect QXT P7 i9	<p>unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p> <p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P7 i10	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P7 i11	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P7 i12	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P5 i13	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P5 i14	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P5 i15	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P5 i16	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect QXT P5 i17	<p>Wash out mouth with water. Remove victim to</p>



## Section 4. First aid measures

SureSelect QXT P5 i18	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. 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 i19	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 i20	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.
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.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

##### Eye contact

: DMSO	Causes eye irritation.
SureSelect QXT Enzyme Mix ILM	Causes eye irritation.
SureSelect QXT Buffer	Causes eye irritation.
Herculase II Fusion DNA Polymerase	Causes eye irritation.
SureSelect QXT Index Read Primer	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 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.

## Section 4. First aid measures

	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 P7 i9	No known significant effects or critical hazards.
	SureSelect QXT P7 i10	No known significant effects or critical hazards.
	SureSelect QXT P7 i11	No known significant effects or critical hazards.
	SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
	SureSelect QXT P5 i16	No known significant effects or critical hazards.
	SureSelect QXT P5 i17	No known significant effects or critical hazards.
	SureSelect QXT P5 i18	No known significant effects or critical hazards.
	SureSelect QXT P5 i19	No known significant effects or critical hazards.
	SureSelect QXT P5 i20	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
Inhalation	: DMSO	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.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
	SureSelect QXT P7 i10	No known significant effects or critical hazards.
	SureSelect QXT P7 i11	No known significant effects or critical hazards.
	SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
	SureSelect QXT P5 i16	No known significant effects or critical hazards.
	SureSelect QXT P5 i17	No known significant effects or critical hazards.
	SureSelect QXT P5 i18	No known significant effects or critical hazards.
	SureSelect QXT P5 i19	No known significant effects or critical hazards.
	SureSelect QXT P5 i20	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
Skin contact	: DMSO	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.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	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 4. First aid measures

### Ingestion

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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
<b>DMSO</b>	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.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

## Section 4. First aid measures

### Eye contact

: DMSO

Adverse symptoms may include the following:  
irritation  
watering  
redness

SureSelect QXT Enzyme Mix ILM

Adverse symptoms may include the following:  
irritation  
watering  
redness

SureSelect QXT Buffer

Adverse symptoms may include the following:  
irritation  
watering  
redness

Herculase II Fusion DNA  
Polymerase

Adverse symptoms may include the following:  
irritation  
watering  
redness

SureSelect QXT Index Read  
Primer

No specific data.

SureSelect QXT Read Primer 1

No specific data.

SureSelect QXT Read Primer 2

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 P7 i9

No specific data.

SureSelect QXT P7 i10

No specific data.

SureSelect QXT P7 i11

No specific data.

SureSelect QXT P7 i12

No specific data.

SureSelect QXT P5 i13

No specific data.

SureSelect QXT P5 i14

No specific data.

SureSelect QXT P5 i15

No specific data.

SureSelect QXT P5 i16

No specific data.

SureSelect QXT P5 i17

No specific data.

SureSelect QXT P5 i18

No specific data.

SureSelect QXT P5 i19

No specific data.

SureSelect QXT P5 i20

No specific data.

100 mM dNTP Mix (25 mM each  
dNTP)

No specific data.

5X Herculase II Reaction Buffer

No specific data.

### Inhalation

: DMSO

No specific data.

SureSelect QXT Enzyme Mix ILM

No specific data.

SureSelect QXT Buffer

No specific data.

Herculase II Fusion DNA  
Polymerase

No specific data.

SureSelect QXT Index Read  
Primer

No specific data.

SureSelect QXT Read Primer 1

No specific data.

SureSelect QXT Read Primer 2

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.

## Section 4. First aid measures

	SureSelect QXT P7 i7	No specific data.
	SureSelect QXT P7 i8	No specific data.
	SureSelect QXT P7 i9	No specific data.
	SureSelect QXT P7 i10	No specific data.
	SureSelect QXT P7 i11	No specific data.
	SureSelect QXT P7 i12	No specific data.
	SureSelect QXT P5 i13	No specific data.
	SureSelect QXT P5 i14	No specific data.
	SureSelect QXT P5 i15	No specific data.
	SureSelect QXT P5 i16	No specific data.
	SureSelect QXT P5 i17	No specific data.
	SureSelect QXT P5 i18	No specific data.
	SureSelect QXT P5 i19	No specific data.
	SureSelect QXT P5 i20	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
<b>Skin contact</b>	:  DMSO	No specific data.
	SureSelect QXT Enzyme Mix ILM	No specific data.
	SureSelect QXT Buffer	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	SureSelect QXT Index Read Primer	No specific data.
	SureSelect QXT Read Primer 1	No specific data.
	SureSelect QXT Read Primer 2	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 P7 i9	No specific data.
	SureSelect QXT P7 i10	No specific data.
	SureSelect QXT P7 i11	No specific data.
	SureSelect QXT P7 i12	No specific data.
	SureSelect QXT P5 i13	No specific data.
	SureSelect QXT P5 i14	No specific data.
	SureSelect QXT P5 i15	No specific data.
	SureSelect QXT P5 i16	No specific data.
	SureSelect QXT P5 i17	No specific data.
	SureSelect QXT P5 i18	No specific data.
	SureSelect QXT P5 i19	No specific data.
	SureSelect QXT P5 i20	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
<b>Ingestion</b>	:  DMSO	No specific data.
	SureSelect QXT Enzyme Mix ILM	No specific data.
	SureSelect QXT Buffer	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	SureSelect QXT Index Read Primer	No specific data.
	SureSelect QXT Read Primer 1	No specific data.
	SureSelect QXT Read Primer 2	No specific data.
	SureSelect QXT P7 i1	No specific data.



## Section 4. First aid measures

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 P7 i9	No specific data.
SureSelect QXT P7 i10	No specific data.
SureSelect QXT P7 i11	No specific data.
SureSelect QXT P7 i12	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT P5 i15	No specific data.
SureSelect QXT P5 i16	No specific data.
SureSelect QXT P5 i17	No specific data.
SureSelect QXT P5 i18	No specific data.
SureSelect QXT P5 i19	No specific data.
SureSelect QXT P5 i20	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculanase II Reaction Buffer	No specific data.

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

<b>Notes to physician</b>	:	DMSO	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.
		Herculanase II Fusion DNA Polymerase	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 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 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



## Section 4. First aid measures

	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 P7 i9	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P7 i10	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P7 i11	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P7 i12	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 P5 i15	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P5 i16	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P5 i17	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P5 i18	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P5 i19	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect QXT P5 i20	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
100 mM dNTP Mix (25 mM each dNTP)	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.

## Section 4. First aid measures

### Specific treatments

: DMSO	No specific treatment.
SureSelect QXT Enzyme Mix ILM	No specific treatment.
SureSelect QXT Buffer	No specific treatment.
Herculase II Fusion DNA Polymerase	No specific treatment.
SureSelect QXT Index Read Primer	No specific treatment.
SureSelect QXT Read Primer 1	No specific treatment.
SureSelect QXT Read Primer 2	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 P7 i9	No specific treatment.
SureSelect QXT P7 i10	No specific treatment.
SureSelect QXT P7 i11	No specific treatment.
SureSelect QXT P7 i12	No specific treatment.
SureSelect QXT P5 i13	No specific treatment.
SureSelect QXT P5 i14	No specific treatment.
SureSelect QXT P5 i15	No specific treatment.
SureSelect QXT P5 i16	No specific treatment.
SureSelect QXT P5 i17	No specific treatment.
SureSelect QXT P5 i18	No specific treatment.
SureSelect QXT P5 i19	No specific treatment.
SureSelect QXT P5 i20	No specific treatment.
100 mM dNTP Mix (25 mM each dNTP)	No specific treatment.
5X Herculase II Reaction Buffer	No specific treatment.

### Protection of first-aiders

: DMSO	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
SureSelect QXT Enzyme Mix ILM	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
SureSelect QXT Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
SureSelect QXT Index Read Primer	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 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

## Section 4. First aid measures

SureSelect QXT P7 i4	or without suitable training. 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 P7 i9	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i10	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i11	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P7 i12	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 P5 i15	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i16	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i17	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i18	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i19	No action shall be taken involving any personal risk or without suitable training.
SureSelect QXT P5 i20	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.
5X Herculanase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

: DMSO	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
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.
Herculanase II Fusion DNA Polymerase	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 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 P7 i1	Use an extinguishing agent suitable for the surrounding fire.

## Section 5. Fire-fighting measures

SureSelect QXT P7 i2	surrounding fire. 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 P7 i9	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i10	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i11	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P7 i12	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 P5 i15	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i16	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i17	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i18	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i19	Use an extinguishing agent suitable for the surrounding fire.
SureSelect QXT P5 i20	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.
5X Herculanase II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b> :  DMSO	Do not use water jet.
SureSelect QXT Enzyme Mix ILM	None known.
SureSelect QXT Buffer	None known.
Herculanase II Fusion DNA Polymerase	None known.
SureSelect QXT Index Read Primer	None known.
SureSelect QXT Read Primer 1	None known.
SureSelect QXT Read Primer 2	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.

## Section 5. Fire-fighting measures

SureSelect QXT P7 i8	None known.
SureSelect QXT P7 i9	None known.
SureSelect QXT P7 i10	None known.
SureSelect QXT P7 i11	None known.
SureSelect QXT P7 i12	None known.
SureSelect QXT P5 i13	None known.
SureSelect QXT P5 i14	None known.
SureSelect QXT P5 i15	None known.
SureSelect QXT P5 i16	None known.
SureSelect QXT P5 i17	None known.
SureSelect QXT P5 i18	None known.
SureSelect QXT P5 i19	None known.
SureSelect QXT P5 i20	None known.
100 mM dNTP Mix (25 mM each dNTP)	None known.
5X Herculase II Reaction Buffer	None known.

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

**Specific hazards arising from the chemical** :  DMSO

Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

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.
Herculase II Fusion DNA Polymerase	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 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 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 P7 i9	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect QXT P7 i10	In a fire or if heated, a pressure increase will occur and the container may burst.

## Section 5. Fire-fighting measures

	SureSelect QXT P7 i11	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT P7 i12	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 P5 i15	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT P5 i16	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT P5 i17	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT P5 i18	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT P5 i19	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect QXT P5 i20	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.
	5X Herculase II Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: DMSO	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	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
	Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect QXT Index Read Primer	No specific data.
	SureSelect QXT Read Primer 1	No specific data.
	SureSelect QXT Read Primer 2	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 P7 i9	No specific data.
	SureSelect QXT P7 i10	No specific data.
	SureSelect QXT P7 i11	No specific data.
	SureSelect QXT P7 i12	No specific data.



## Section 5. Fire-fighting measures

SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT P5 i15	No specific data.
SureSelect QXT P5 i16	No specific data.
SureSelect QXT P5 i17	No specific data.
SureSelect QXT P5 i18	No specific data.
SureSelect QXT P5 i19	No specific data.
SureSelect QXT P5 i20	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
5X Herculanase II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** :  MSO

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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.
Herculanase 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 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 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 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

## Section 5. Fire-fighting measures

SureSelect QXT P7 i3

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 P7 i9

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 i10

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 i11

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 i12

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 P5 i15

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 i16

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

	SureSelect QXT P5 i17	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 i18	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 i19	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 i20	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.
	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.
<b>Special protective equipment for fire-fighters</b>	: DMSO	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect QXT Enzyme Mix ILM	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	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.
	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.
	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.
	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.
	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.
	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.
	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

## Section 5. Fire-fighting measures

SureSelect QXT P7 i3	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect 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.
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.
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.
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.
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.
SureSelect QXT P7 i9	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i10	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i11	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P7 i12	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
SureSelect QXT P5 i14	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P5 i15	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P5 i16	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P5 i17	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

## Section 5. Fire-fighting measures

SureSelect QXT P5 i18	(SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P5 i19	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect QXT P5 i20	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
100 mM dNTP Mix (25 mM each dNTP)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: DMSO

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
SureSelect QXT Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid

## Section 6. Accidental release measures

SureSelect QXT Index Read  
Primer

breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

SureSelect 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. 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



## Section 6. Accidental release measures

SureSelect QXT P7 i8

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. 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 i9

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 i10

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 i11

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 i12

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 P5 i15

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 i16

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.

## Section 6. Accidental release measures

SureSelect QXT P5 i17

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 i18

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 i19

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 i20

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

100 mM dNTP Mix (25 mM each dNTP)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

5X Herculase II Reaction Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders :  DMSO

SureSelect QXT Enzyme Mix ILM

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

SureSelect QXT Buffer

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

Herculase II Fusion DNA Polymerase

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

SureSelect QXT Index Read Primer

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


SureSelect QXT Read Primer 1

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

## Section 6. Accidental release measures

SureSelect QXT Read Primer 2	the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i3	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i4	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i5	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i6	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i7	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i8	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i9	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i10	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i11	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P7 i12	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i13	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i14	If specialized clothing is required to deal with the spillage, take note of any information in Section 8

## Section 6. Accidental release measures

SureSelect QXT P5 i15	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i16	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i17	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i18	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i19	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect QXT P5 i20	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
100 mM dNTP Mix (25 mM each dNTP)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
5X Herculase II Reaction Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	
:  DMSO	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Enzyme Mix ILM	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Herculase II Fusion DNA Polymerase	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT Index Read Primer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

## Section 6. Accidental release measures

SureSelect QXT Read Primer 1	<p>caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT Read Primer 2	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i1	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i2	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i3	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i4	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i5	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i6	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i7	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i8	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i9	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
SureSelect QXT P7 i10	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</p>

## Section 6. Accidental release measures

	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i11	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P7 i12	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i13	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i14	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i15	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i16	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i17	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i18	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i19	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect QXT P5 i20	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
100 mM dNTP Mix (25 mM each dNTP)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X Herculanase II Reaction Buffer	Avoid dispersal of spilled material and runoff and



## Section 6. Accidental release measures

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Methods for cleaning up : DMSO

SureSelect QXT Enzyme Mix ILM

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

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.

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 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 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 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

## Section 6. Accidental release measures

SureSelect QXT P7 i3

inert dry material and place in an appropriate waste disposal container. Dispose 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.

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 P7 i9

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 i10

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 i11

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 i12

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

## Section 6. Accidental release measures

	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. 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 P5 i15	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 i16	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 i17	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 i18	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 i19	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 i20	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
100 mM dNTP Mix (25 mM each dNTP)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
5X Herculase II Reaction Buffer	Stop leak if without risk. Move containers from spill

## Section 6. Accidental release measures

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

Protective measures : DMSO

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect QXT Enzyme Mix ILM

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect QXT Buffer

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Herculase II Fusion DNA Polymerase

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect QXT Index Read Primer

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 P7 i1

Put on appropriate personal protective equipment (see Section 8).

SureSelect QXT P7 i2

Put on appropriate personal protective equipment (see Section 8).

## Section 7. Handling and storage

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).
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 P7 i9	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i10	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i11	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P7 i12	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 P5 i15	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i16	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i17	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i18	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i19	Put on appropriate personal protective equipment (see Section 8).
SureSelect QXT P5 i20	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).
5X Herculanase II Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	<b>: DMSO</b>
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

## Section 7. Handling and storage

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



## Section 7. Handling and storage

SureSelect QXT P5 i13

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. 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. 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. 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. 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. 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. 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. 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.

## Section 7. Handling and storage

SureSelect QXT P5 i14

SureSelect QXT P5 i15

SureSelect QXT P5 i16

SureSelect QXT P5 i17

SureSelect QXT P5 i18

SureSelect QXT P5 i19

SureSelect QXT P5 i20

100 mM dNTP Mix (25 mM each dNTP)

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

## Section 7. Handling and storage

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.

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

: DMSO

Storage temperature: -20°C (-4°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect 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 been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

Herculase II Fusion DNA Polymerase

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

## Section 7. Handling and storage

SureSelect QXT Read Primer 1

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

SureSelect QXT Read Primer 2

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

SureSelect 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 unlabeled 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 unlabeled 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

## Section 7. Handling and storage

SureSelect QXT P7 i4

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food

and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright

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

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

## Section 7. Handling and storage

SureSelect QXT P7 i9

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

SureSelect QXT P7 i10

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

SureSelect QXT P7 i11

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

SureSelect QXT P7 i12

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

SureSelect 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 unlabeled 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



## Section 7. Handling and storage

SureSelect QXT P5 i15

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

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

SureSelect QXT P5 i16

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

SureSelect QXT P5 i17

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

SureSelect QXT P5 i18

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

SureSelect QXT P5 i19

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

## Section 7. Handling and storage

SureSelect QXT P5 i20

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

100 mM dNTP Mix (25 mM each dNTP)

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

5X Herculase II Reaction Buffer

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

### 7.3 Specific end use(s)

#### Recommendations

<ul style="list-style-type: none"> <li>• DMSO</li> <li>SureSelect QXT Enzyme Mix ILM</li> <li>SureSelect QXT Buffer</li> <li>Herculase II Fusion DNA Polymerase</li> <li>SureSelect QXT Index Read Primer</li> <li>SureSelect QXT Read Primer 1</li> <li>SureSelect QXT Read Primer 2</li> <li>SureSelect QXT P7 i1</li> <li>SureSelect QXT P7 i2</li> <li>SureSelect QXT P7 i3</li> <li>SureSelect QXT P7 i4</li> <li>SureSelect QXT P7 i5</li> <li>SureSelect QXT P7 i6</li> <li>SureSelect QXT P7 i7</li> <li>SureSelect QXT P7 i8</li> <li>SureSelect QXT P7 i9</li> <li>SureSelect QXT P7 i10</li> </ul>	<ul style="list-style-type: none"> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> <li>Industrial applications, Professional applications.</li> </ul>
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## Section 7. Handling and storage

	SureSelect QXT P7 i11	Industrial applications, Professional applications.
	SureSelect QXT P7 i12	Industrial applications, Professional applications.
	SureSelect QXT P5 i13	Industrial applications, Professional applications.
	SureSelect QXT P5 i14	Industrial applications, Professional applications.
	SureSelect QXT P5 i15	Industrial applications, Professional applications.
	SureSelect QXT P5 i16	Industrial applications, Professional applications.
	SureSelect QXT P5 i17	Industrial applications, Professional applications.
	SureSelect QXT P5 i18	Industrial applications, Professional applications.
	SureSelect QXT P5 i19	Industrial applications, Professional applications.
	SureSelect QXT P5 i20	Industrial applications, Professional applications.
	100 mM dNTP Mix (25 mM each dNTP)	Industrial applications, Professional applications.
	5X Herculase II Reaction Buffer	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: DMSO	Not applicable.
	SureSelect QXT Enzyme Mix ILM	Not applicable.
	SureSelect QXT Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect QXT Index Read Primer	Not applicable.
	SureSelect QXT Read Primer 1	Not applicable.
	SureSelect QXT Read Primer 2	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 P7 i9	Not applicable.
	SureSelect QXT P7 i10	Not applicable.
	SureSelect QXT P7 i11	Not applicable.
	SureSelect QXT P7 i12	Not applicable.
	SureSelect QXT P5 i13	Not applicable.
	SureSelect QXT P5 i14	Not applicable.
	SureSelect QXT P5 i15	Not applicable.
	SureSelect QXT P5 i16	Not applicable.
	SureSelect QXT P5 i17	Not applicable.
	SureSelect QXT P5 i18	Not applicable.
	SureSelect QXT P5 i19	Not applicable.
	SureSelect QXT P5 i20	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.

## Section 8. Exposure controls/personal protection

### [8.1 Control parameters](#)

### [Occupational exposure limits](#)

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
<b>DMSO</b> Dimethyl sulfoxide	<b>AIHA WEEL (United States, 10/2011).</b> TWA: 250 ppm 8 hours.
<b>SureSelect QXT Enzyme Mix ILM</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust None.
Potassium chloride	
<b>SureSelect QXT Buffer</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
<b>5X Herculase II Reaction Buffer</b> Trometamol Hexadecan-1-ol, ethoxylated	None. None.

### 8.2 Exposure controls

#### Appropriate engineering controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Environmental exposure controls

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

### Individual protection measures

#### Hygiene measures

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


## Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:  DMSO	Liquid. [Clear.]
	SureSelect QXT Enzyme Mix ILM	Liquid.
	SureSelect QXT Buffer	Liquid.
	Herculase II Fusion DNA Polymerase	Liquid.
	SureSelect QXT Index Read Primer	Liquid.
	SureSelect QXT Read Primer 1	Liquid.
	SureSelect QXT Read Primer 2	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.
	SureSelect QXT P7 i8	Liquid.
	SureSelect QXT P7 i9	Liquid.
	SureSelect QXT P7 i10	Liquid.
	SureSelect QXT P7 i11	Liquid.
	SureSelect QXT P7 i12	Liquid.
	SureSelect QXT P5 i13	Liquid.
	SureSelect QXT P5 i14	Liquid.
	SureSelect QXT P5 i15	Liquid.
	SureSelect QXT P5 i16	Liquid.
	SureSelect QXT P5 i17	Liquid.
	SureSelect QXT P5 i18	Liquid.
	SureSelect QXT P5 i19	Liquid.
	SureSelect QXT P5 i20	Liquid.
	100 mM dNTP Mix (25 mM each dNTP)	Liquid.
	5X Herculase II Reaction Buffer	Liquid.

## Section 9. Physical and chemical properties

Color	:	DMSO	Colorless.
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	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 P7 i9	Not available.
		SureSelect QXT P7 i10	Not available.
		SureSelect QXT P7 i11	Not available.
		SureSelect QXT P7 i12	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT P5 i15	Not available.
		SureSelect QXT P5 i16	Not available.
		SureSelect QXT P5 i17	Not available.
		SureSelect QXT P5 i18	Not available.
		SureSelect QXT P5 i19	Not available.
		SureSelect QXT P5 i20	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		5X Herculase II Reaction Buffer	Not available.
Odor	:	DMSO	Odorless. [Slight]
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	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 P7 i9	Not available.
		SureSelect QXT P7 i10	Not available.
		SureSelect QXT P7 i11	Not available.
		SureSelect QXT P7 i12	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT P5 i15	Not available.
		SureSelect QXT P5 i16	Not available.
		SureSelect QXT P5 i17	Not available.



## Section 9. Physical and chemical properties

### Odor threshold

SureSelect QXT P5 i18	Not available.
SureSelect QXT P5 i19	Not available.
SureSelect QXT P5 i20	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
5X Herculase II Reaction Buffer	Not available.
DMSO	Not available.
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Index Read Primer	Not available.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	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 P7 i9	Not available.
SureSelect QXT P7 i10	Not available.
SureSelect QXT P7 i11	Not available.
SureSelect QXT P7 i12	Not available.
SureSelect QXT P5 i13	Not available.
SureSelect QXT P5 i14	Not available.
SureSelect QXT P5 i15	Not available.
SureSelect QXT P5 i16	Not available.
SureSelect QXT P5 i17	Not available.
SureSelect QXT P5 i18	Not available.
SureSelect QXT P5 i19	Not available.
SureSelect QXT P5 i20	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
5X Herculase II Reaction Buffer	Not available.

### pH

DMSO	Not available.
SureSelect QXT Enzyme Mix ILM	7.9
SureSelect QXT Buffer	7.5
Herculase II Fusion DNA Polymerase	7.7 to 8.7
SureSelect QXT Index Read Primer	7
SureSelect QXT Read Primer 1	7
SureSelect QXT Read Primer 2	7
SureSelect QXT P7 i1	7
SureSelect QXT P7 i2	7
SureSelect QXT P7 i3	7
SureSelect QXT P7 i4	7
SureSelect QXT P7 i5	7
SureSelect QXT P7 i6	7
SureSelect QXT P7 i7	7
SureSelect QXT P7 i8	7
SureSelect QXT P7 i9	7
SureSelect QXT P7 i10	7
SureSelect QXT P7 i11	7

## Section 9. Physical and chemical properties

### Melting point

SureSelect QXT P7 i12	7
SureSelect QXT P5 i13	7
SureSelect QXT P5 i14	7
SureSelect QXT P5 i15	7
SureSelect QXT P5 i16	7
SureSelect QXT P5 i17	7
SureSelect QXT P5 i18	7
SureSelect QXT P5 i19	7
SureSelect QXT P5 i20	7
100 mM dNTP Mix (25 mM each dNTP)	7.5
5X Herculase II Reaction Buffer	9.5 to 10.5
☐ DMSO	18.5°C (65.3°F)
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Index Read Primer	0°C (32°F)
SureSelect QXT Read Primer 1	0°C (32°F)
SureSelect QXT Read Primer 2	0°C (32°F)
SureSelect QXT P7 i1	0°C (32°F)
SureSelect QXT P7 i2	0°C (32°F)
SureSelect QXT P7 i3	0°C (32°F)
SureSelect QXT P7 i4	0°C (32°F)
SureSelect QXT P7 i5	0°C (32°F)
SureSelect QXT P7 i6	0°C (32°F)
SureSelect QXT P7 i7	0°C (32°F)
SureSelect QXT P7 i8	0°C (32°F)
SureSelect QXT P7 i9	0°C (32°F)
SureSelect QXT P7 i10	0°C (32°F)
SureSelect QXT P7 i11	0°C (32°F)
SureSelect QXT P7 i12	0°C (32°F)
SureSelect QXT P5 i13	0°C (32°F)
SureSelect QXT P5 i14	0°C (32°F)
SureSelect QXT P5 i15	0°C (32°F)
SureSelect QXT P5 i16	0°C (32°F)
SureSelect QXT P5 i17	0°C (32°F)
SureSelect QXT P5 i18	0°C (32°F)
SureSelect QXT P5 i19	0°C (32°F)
SureSelect QXT P5 i20	0°C (32°F)

### Boiling point

100 mM dNTP Mix (25 mM each dNTP)	Not available.
5X Herculase II Reaction Buffer	Not available.
☐ DMSO	189°C (372.2°F)
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	Not available.
Herculase II Fusion DNA Polymerase	Not available.
SureSelect QXT Index Read Primer	100°C (212°F)
SureSelect QXT Read Primer 1	100°C (212°F)
SureSelect QXT Read Primer 2	100°C (212°F)
SureSelect QXT P7 i1	100°C (212°F)
SureSelect QXT P7 i2	100°C (212°F)
SureSelect QXT P7 i3	100°C (212°F)
SureSelect QXT P7 i4	100°C (212°F)
SureSelect QXT P7 i5	100°C (212°F)

## Section 9. Physical and chemical properties

	SureSelect QXT P7 i6	100°C (212°F)
	SureSelect QXT P7 i7	100°C (212°F)
	SureSelect QXT P7 i8	100°C (212°F)
	SureSelect QXT P7 i9	100°C (212°F)
	SureSelect QXT P7 i10	100°C (212°F)
	SureSelect QXT P7 i11	100°C (212°F)
	SureSelect QXT P7 i12	100°C (212°F)
	SureSelect QXT P5 i13	100°C (212°F)
	SureSelect QXT P5 i14	100°C (212°F)
	SureSelect QXT P5 i15	100°C (212°F)
	SureSelect QXT P5 i16	100°C (212°F)
	SureSelect QXT P5 i17	100°C (212°F)
	SureSelect QXT P5 i18	100°C (212°F)
	SureSelect QXT P5 i19	100°C (212°F)
	SureSelect QXT P5 i20	100°C (212°F)
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
Flash point	: DMSO	Closed cup: 87°C (188.6°F)
		Open cup: 87°C (188.6°F)
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	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 P7 i9	Not available.
	SureSelect QXT P7 i10	Not available.
	SureSelect QXT P7 i11	Not available.
	SureSelect QXT P7 i12	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT P5 i15	Not available.
	SureSelect QXT P5 i16	Not available.
	SureSelect QXT P5 i17	Not available.
	SureSelect QXT P5 i18	Not available.
	SureSelect QXT P5 i19	Not available.
	SureSelect QXT P5 i20	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.



## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	:	DMSO	0.026 (butyl acetate = 1)
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	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 P7 i9	Not available.
		SureSelect QXT P7 i10	Not available.
		SureSelect QXT P7 i11	Not available.
		SureSelect QXT P7 i12	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT P5 i15	Not available.
		SureSelect QXT P5 i16	Not available.
		SureSelect QXT P5 i17	Not available.
		SureSelect QXT P5 i18	Not available.
		SureSelect QXT P5 i19	Not available.
		SureSelect QXT P5 i20	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		5X Herculase II Reaction Buffer	Not available.
<b>Flammability (solid, gas)</b>	:	DMSO	Not applicable.
		SureSelect QXT Enzyme Mix ILM	Not applicable.
		SureSelect QXT Buffer	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		SureSelect QXT Index Read Primer	Not applicable.
		SureSelect QXT Read Primer 1	Not applicable.
		SureSelect QXT Read Primer 2	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 P7 i9	Not applicable.
		SureSelect QXT P7 i10	Not applicable.
		SureSelect QXT P7 i11	Not applicable.
		SureSelect QXT P7 i12	Not applicable.
		SureSelect QXT P5 i13	Not applicable.
		SureSelect QXT P5 i14	Not applicable.
		SureSelect QXT P5 i15	Not applicable.
		SureSelect QXT P5 i16	Not applicable.
		SureSelect QXT P5 i17	Not applicable.

## Section 9. Physical and chemical properties

	SureSelect QXT P5 i18	Not applicable.
	SureSelect QXT P5 i19	Not applicable.
	SureSelect QXT P5 i20	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculanase II Reaction Buffer	Not applicable.
Lower and upper explosive (flammable) limits	DMSO	Lower: 2.6% Upper: 28.5%
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	Herculanase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	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 P7 i9	Not available.
	SureSelect QXT P7 i10	Not available.
	SureSelect QXT P7 i11	Not available.
	SureSelect QXT P7 i12	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT P5 i15	Not available.
	SureSelect QXT P5 i16	Not available.
	SureSelect QXT P5 i17	Not available.
	SureSelect QXT P5 i18	Not available.
	SureSelect QXT P5 i19	Not available.
	SureSelect QXT P5 i20	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculanase II Reaction Buffer	Not available.
Vapor pressure	DMSO	0.056 kPa (0.42 mm Hg) [room temperature]
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	Herculanase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	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 P7 i9	Not available.
	SureSelect QXT P7 i10	Not available.

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	SureSelect QXT P7 i11	Not available.
	SureSelect QXT P7 i12	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT P5 i15	Not available.
	SureSelect QXT P5 i16	Not available.
	SureSelect QXT P5 i17	Not available.
	SureSelect QXT P5 i18	Not available.
	SureSelect QXT P5 i19	Not available.
	SureSelect QXT P5 i20	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
<b>Vapor density</b>	:  DMSO	2.7 [Air = 1]
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	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 P7 i9	Not available.
	SureSelect QXT P7 i10	Not available.
	SureSelect QXT P7 i11	Not available.
	SureSelect QXT P7 i12	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT P5 i15	Not available.
	SureSelect QXT P5 i16	Not available.
	SureSelect QXT P5 i17	Not available.
	SureSelect QXT P5 i18	Not available.
	SureSelect QXT P5 i19	Not available.
	SureSelect QXT P5 i20	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
<b>Relative density</b>	:  DMSO	1.1
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	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.



## Section 9. Physical and chemical properties

	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 P7 i9	Not available.
	SureSelect QXT P7 i10	Not available.
	SureSelect QXT P7 i11	Not available.
	SureSelect QXT P7 i12	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT P5 i15	Not available.
	SureSelect QXT P5 i16	Not available.
	SureSelect QXT P5 i17	Not available.
	SureSelect QXT P5 i18	Not available.
	SureSelect QXT P5 i19	Not available.
	SureSelect QXT P5 i20	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculanase II Reaction Buffer	Not available.
<b>Solubility</b>	<b>:</b> DMSO	Easily 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.
	Herculanase II Fusion DNA Polymerase	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 Read Primer 1	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT Read Primer 2	Easily 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 P7 i9	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i10	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i11	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P7 i12	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i13	Easily soluble in the following materials: cold water

## Section 9. Physical and chemical properties

	SureSelect QXT P5 i14	and hot water. Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i15	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i16	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i17	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i18	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i19	Easily soluble in the following materials: cold water and hot water.
	SureSelect QXT P5 i20	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.
	5X Herculase II Reaction Buffer	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: DMSO	-1.35
	SureSelect QXT Enzyme Mix ILM	Not available.
	SureSelect QXT Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect QXT Index Read Primer	Not available.
	SureSelect QXT Read Primer 1	Not available.
	SureSelect QXT Read Primer 2	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 P7 i9	Not available.
	SureSelect QXT P7 i10	Not available.
	SureSelect QXT P7 i11	Not available.
	SureSelect QXT P7 i12	Not available.
	SureSelect QXT P5 i13	Not available.
	SureSelect QXT P5 i14	Not available.
	SureSelect QXT P5 i15	Not available.
	SureSelect QXT P5 i16	Not available.
	SureSelect QXT P5 i17	Not available.
	SureSelect QXT P5 i18	Not available.
	SureSelect QXT P5 i19	Not available.
	SureSelect QXT P5 i20	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.

## Section 9. Physical and chemical properties

<b>Auto-ignition temperature</b>	<b>:</b>	DMSO	300 to 302°C (572 to 575.6°F)
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	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 P7 i9	Not available.
		SureSelect QXT P7 i10	Not available.
		SureSelect QXT P7 i11	Not available.
		SureSelect QXT P7 i12	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT P5 i15	Not available.
		SureSelect QXT P5 i16	Not available.
		SureSelect QXT P5 i17	Not available.
		SureSelect QXT P5 i18	Not available.
		SureSelect QXT P5 i19	Not available.
		SureSelect QXT P5 i20	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		5X Herculase II Reaction Buffer	Not available.
<b>Decomposition temperature</b>	<b>:</b>	DMSO	140 to 189°C (284 to 372.2°F)
		SureSelect QXT Enzyme Mix ILM	Not available.
		SureSelect QXT Buffer	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect QXT Index Read Primer	Not available.
		SureSelect QXT Read Primer 1	Not available.
		SureSelect QXT Read Primer 2	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 P7 i9	Not available.
		SureSelect QXT P7 i10	Not available.
		SureSelect QXT P7 i11	Not available.
		SureSelect QXT P7 i12	Not available.
		SureSelect QXT P5 i13	Not available.
		SureSelect QXT P5 i14	Not available.
		SureSelect QXT P5 i15	Not available.
		SureSelect QXT P5 i16	Not available.
		SureSelect QXT P5 i17	Not available.

## Section 9. Physical and chemical properties

### Viscosity

SureSelect QXT P5 i18	Not available.
SureSelect QXT P5 i19	Not available.
SureSelect QXT P5 i20	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
5X Herculanase II Reaction Buffer	Not available.
<b>DMSO</b>	Dynamic (room temperature): 2.14 mPa·s (2.14 cP)
SureSelect QXT Enzyme Mix ILM	Not available.
SureSelect QXT Buffer	Not available.
Herculanase II Fusion DNA Polymerase	Not available.
SureSelect QXT Index Read Primer	Not available.
SureSelect QXT Read Primer 1	Not available.
SureSelect QXT Read Primer 2	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 P7 i9	Not available.
SureSelect QXT P7 i10	Not available.
SureSelect QXT P7 i11	Not available.
SureSelect QXT P7 i12	Not available.
SureSelect QXT P5 i13	Not available.
SureSelect QXT P5 i14	Not available.
SureSelect QXT P5 i15	Not available.
SureSelect QXT P5 i16	Not available.
SureSelect QXT P5 i17	Not available.
SureSelect QXT P5 i18	Not available.
SureSelect QXT P5 i19	Not available.
SureSelect QXT P5 i20	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
5X Herculanase II Reaction Buffer	Not available.

## Section 10. Stability and reactivity


### 10.1 Reactivity

<b>DMSO</b>	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.
Herculanase II Fusion DNA Polymerase	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 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 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.

## Section 10. Stability and reactivity

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 P7 i9	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P7 i10	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P7 i11	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P7 i12	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 P5 i15	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P5 i16	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P5 i17	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P5 i18	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P5 i19	No specific test data related to reactivity available for this product or its ingredients.
SureSelect QXT P5 i20	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.
5X Herculanase II Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

:  DMSO	The product is stable.
SureSelect QXT Enzyme Mix ILM	The product is stable.
SureSelect QXT Buffer	The product is stable.
Herculanase II Fusion DNA Polymerase	The product is stable.
SureSelect QXT Index Read Primer	The product is stable.
SureSelect QXT Read Primer 1	The product is stable.
SureSelect QXT Read Primer 2	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 P7 i9	The product is stable.

## Section 10. Stability and reactivity

SureSelect QXT P7 i10	The product is stable.
SureSelect QXT P7 i11	The product is stable.
SureSelect QXT P7 i12	The product is stable.
SureSelect QXT P5 i13	The product is stable.
SureSelect QXT P5 i14	The product is stable.
SureSelect QXT P5 i15	The product is stable.
SureSelect QXT P5 i16	The product is stable.
SureSelect QXT P5 i17	The product is stable.
SureSelect QXT P5 i18	The product is stable.
SureSelect QXT P5 i19	The product is stable.
SureSelect QXT P5 i20	The product is stable.
100 mM dNTP Mix (25 mM each dNTP)	The product is stable.
5X Herculanase II Reaction Buffer	The product is stable.

### 10.3 Possibility of hazardous reactions

: DMSO	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.
Herculanase II Fusion DNA Polymerase	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 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 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 P7 i9	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i10	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i11	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P7 i12	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 P5 i15	Under normal conditions of storage and use, hazardous reactions will not occur.



## Section 10. Stability and reactivity

SureSelect QXT P5 i16	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P5 i17	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P5 i18	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P5 i19	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect QXT P5 i20	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.
5X Herculanase II Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid : DMSO

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	No specific data.
Herculanase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Index Read Primer	No specific data.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	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 P7 i9	No specific data.
SureSelect QXT P7 i10	No specific data.
SureSelect QXT P7 i11	No specific data.
SureSelect QXT P7 i12	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT P5 i15	No specific data.
SureSelect QXT P5 i16	No specific data.
SureSelect QXT P5 i17	No specific data.
SureSelect QXT P5 i18	No specific data.
SureSelect QXT P5 i19	No specific data.
SureSelect QXT P5 i20	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculanase II Reaction Buffer	No specific data.

## Section 10. Stability and reactivity

### 10.5 Incompatible materials : DMSO

	Reactive or incompatible with the following materials: oxidizing materials
SureSelect QXT Enzyme Mix ILM	May react or be incompatible with oxidizing materials.
SureSelect QXT Buffer	May react or be incompatible with oxidizing materials.
Herculase II Fusion DNA Polymerase	May react or be incompatible with oxidizing materials.
SureSelect QXT Index Read Primer	May react or be incompatible with oxidizing materials.
SureSelect QXT Read Primer 1	May react or be incompatible with oxidizing materials.
SureSelect QXT Read Primer 2	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i1	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i2	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i3	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i4	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i5	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i6	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i7	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i8	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i9	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i10	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i11	May react or be incompatible with oxidizing materials.
SureSelect QXT P7 i12	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i13	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i14	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i15	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i16	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i17	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i18	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i19	May react or be incompatible with oxidizing materials.
SureSelect QXT P5 i20	May react or be incompatible with oxidizing materials.
100 mM dNTP Mix (25 mM each dNTP)	May react or be incompatible with oxidizing materials.
5X Herculase II Reaction Buffer	May react or be incompatible with oxidizing materials.

## Section 10. Stability and reactivity

### 10.6 Hazardous decomposition products

: DMSO

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.

Herculase II Fusion DNA Polymerase

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 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 P7 i1

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

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 P7 i9

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

SureSelect QXT P7 i10

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

SureSelect QXT P7 i11

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

SureSelect QXT P7 i12

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.

Under normal conditions of storage and use,

## Section 10. Stability and reactivity

SureSelect QXT P5 i14	hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i15	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i16	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i17	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i18	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i19	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect QXT P5 i20	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.
5X Herculanase II Reaction Buffer	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>SureSelect QXT Enzyme Mix ILM</b> Glycerol Potassium chloride	LD50 Oral LD50 Oral	Rat Rat	12600 mg/kg 2600 mg/kg	- -
<b>SureSelect QXT Buffer</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>5X Herculanase II Reaction Buffer</b> Trometamol Hexadecan-1-ol, ethoxylated	LD50 Dermal LD50 Oral LD50 Oral	Rat Rat Rat	>5000 mg/kg 5000 mg/kg 2500 mg/kg	- - -

#### Irritation/Corrosion

## Section 11. Toxicological information

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>SureSelect QXT Enzyme Mix ILM</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>SureSelect QXT Buffer</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>5X Herculase II Reaction Buffer</b> Trometamol	Skin - Moderate irritant	Rabbit	-	25 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
<b>5X Herculanase II Reaction Buffer</b>			
Trometamol	Category 3	Not applicable.	Respiratory tract irritation
Hexadecan-1-ol, ethoxylated	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

: **DMSO**

SureSelect QXT Enzyme Mix ILM

SureSelect QXT Buffer

Herculase II Fusion DNA Polymerase

SureSelect QXT Index Read Primer

SureSelect QXT Read Primer 1

SureSelect QXT Read Primer 2

SureSelect QXT P7 i1

SureSelect QXT P7 i2

SureSelect QXT P7 i3

SureSelect QXT P7 i4

SureSelect QXT P7 i5

SureSelect QXT P7 i6

SureSelect QXT P7 i7

SureSelect QXT P7 i8

SureSelect QXT P7 i9

SureSelect QXT P7 i10

SureSelect QXT P7 i11

SureSelect QXT P7 i12

SureSelect QXT P5 i13

SureSelect QXT P5 i14

SureSelect QXT P5 i15

SureSelect QXT P5 i16

SureSelect QXT P5 i17

SureSelect QXT P5 i18

SureSelect QXT P5 i19

SureSelect QXT P5 i20

100 mM dNTP Mix (25 mM each dNTP)

5X Herculanase II Reaction Buffer

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects



## Section 11. Toxicological information

### Eye contact


: DMSO	Causes eye irritation.
SureSelect QXT Enzyme Mix ILM	Causes eye irritation.
SureSelect QXT Buffer	Causes eye irritation.
Herculase II Fusion DNA Polymerase	Causes eye irritation.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.

### Inhalation


: DMSO	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.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.

## Section 11. Toxicological information

### Skin contact

SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculanase II Reaction Buffer	No known significant effects or critical hazards.
 DMSO	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.
Herculanase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculanase II Reaction Buffer	No known significant effects or critical hazards.

### Ingestion

 DMSO	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.
Herculanase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	No known significant effects or critical hazards.
SureSelect QXT P5 i13	No known significant effects or critical hazards.

## Section 11. Toxicological information

SureSelect QXT P5 i14	No known significant effects or critical hazards.
SureSelect QXT P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculanase II Reaction Buffer	No known significant effects or critical hazards.

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

#### Eye contact

: DMSO

Adverse symptoms may include the following:  
irritation

watering

redness

SureSelect QXT Enzyme Mix ILM

Adverse symptoms may include the following:

irritation

watering

redness

SureSelect QXT Buffer

Adverse symptoms may include the following:

irritation

watering

redness

Herculase II Fusion DNA  
Polymerase

Adverse symptoms may include the following:

irritation

watering

redness

SureSelect QXT Index Read  
Primer

No specific data.

SureSelect QXT Read Primer 1

No specific data.

SureSelect QXT Read Primer 2

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 P7 i9

No specific data.

SureSelect QXT P7 i10

No specific data.

SureSelect QXT P7 i11

No specific data.

SureSelect QXT P7 i12

No specific data.

SureSelect QXT P5 i13

No specific data.

SureSelect QXT P5 i14

No specific data.

SureSelect QXT P5 i15

No specific data.

SureSelect QXT P5 i16

No specific data.

SureSelect QXT P5 i17

No specific data.

SureSelect QXT P5 i18

No specific data.

SureSelect QXT P5 i19

No specific data.

SureSelect QXT P5 i20

No specific data.

100 mM dNTP Mix (25 mM each dNTP)

No specific data.

5X Herculanase II Reaction Buffer

No specific data.

## Section 11. Toxicological information

### Inhalation

: DMSO	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Index Read Primer	No specific data.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	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 P7 i9	No specific data.
SureSelect QXT P7 i10	No specific data.
SureSelect QXT P7 i11	No specific data.
SureSelect QXT P7 i12	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT P5 i15	No specific data.
SureSelect QXT P5 i16	No specific data.
SureSelect QXT P5 i17	No specific data.
SureSelect QXT P5 i18	No specific data.
SureSelect QXT P5 i19	No specific data.
SureSelect QXT P5 i20	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.

### Skin contact

: DMSO	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Index Read Primer	No specific data.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	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 P7 i9	No specific data.
SureSelect QXT P7 i10	No specific data.
SureSelect QXT P7 i11	No specific data.
SureSelect QXT P7 i12	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT P5 i15	No specific data.
SureSelect QXT P5 i16	No specific data.
SureSelect QXT P5 i17	No specific data.
SureSelect QXT P5 i18	No specific data.

## Section 11. Toxicological information

### Ingestion

SureSelect QXT P5 i19	No specific data.
SureSelect QXT P5 i20	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.
DMSO	No specific data.
SureSelect QXT Enzyme Mix ILM	No specific data.
SureSelect QXT Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect QXT Index Read Primer	No specific data.
SureSelect QXT Read Primer 1	No specific data.
SureSelect QXT Read Primer 2	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 P7 i9	No specific data.
SureSelect QXT P7 i10	No specific data.
SureSelect QXT P7 i11	No specific data.
SureSelect QXT P7 i12	No specific data.
SureSelect QXT P5 i13	No specific data.
SureSelect QXT P5 i14	No specific data.
SureSelect QXT P5 i15	No specific data.
SureSelect QXT P5 i16	No specific data.
SureSelect QXT P5 i17	No specific data.
SureSelect QXT P5 i18	No specific data.
SureSelect QXT P5 i19	No specific data.
SureSelect QXT P5 i20	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.

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

#### Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

#### Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

General	DMSO	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.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect QXT Index Read Primer	No known significant effects or critical hazards.
	SureSelect QXT Read Primer 1	No known significant effects or critical hazards.



## Section 11. Toxicological information

### Carcinogenicity

SureSelect QXT Read Primer 2	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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
: DMSO	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.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.



## Section 11. Toxicological information

### Mutagenicity

: DMSO	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.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.

### Teratogenicity

: DMSO	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.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
SureSelect QXT P7 i10	No known significant effects or critical hazards.
SureSelect QXT P7 i11	No known significant effects or critical hazards.
SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Developmental effects</b>	:	SureSelect QXT P5 i19	No known significant effects or critical hazards.
		SureSelect QXT P5 i20	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculanase II Reaction Buffer	No known significant effects or critical hazards.
		DMSO	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.
		Herculanase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
		SureSelect QXT P7 i10	No known significant effects or critical hazards.
		SureSelect QXT P7 i11	No known significant effects or critical hazards.
		SureSelect QXT P7 i12	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 P5 i15	No known significant effects or critical hazards.
		SureSelect QXT P5 i16	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	SureSelect QXT P5 i17	No known significant effects or critical hazards.
		SureSelect QXT P5 i18	No known significant effects or critical hazards.
		SureSelect QXT P5 i19	No known significant effects or critical hazards.
		SureSelect QXT P5 i20	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculanase II Reaction Buffer	No known significant effects or critical hazards.
		DMSO	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.
		Herculanase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect QXT Index Read Primer	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 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 P7 i9	No known significant effects or critical hazards.
		SureSelect QXT P7 i10	No known significant effects or critical hazards.
		SureSelect QXT P7 i11	No known significant effects or critical hazards.
		SureSelect QXT P7 i12	No known significant effects or critical hazards.
		SureSelect QXT P5 i13	No known significant effects or critical hazards.

## Section 11. Toxicological information

SureSelect QXT P5 i14	No known significant effects or critical hazards.
SureSelect QXT P5 i15	No known significant effects or critical hazards.
SureSelect QXT P5 i16	No known significant effects or critical hazards.
SureSelect QXT P5 i17	No known significant effects or critical hazards.
SureSelect QXT P5 i18	No known significant effects or critical hazards.
SureSelect QXT P5 i19	No known significant effects or critical hazards.
SureSelect QXT P5 i20	No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculanase II Reaction Buffer	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<b>SureSelect QXT Enzyme Mix ILM</b> Oral	139784.9 mg/kg
<b>5X Herculanase II Reaction Buffer</b> Oral	81278.2 mg/kg

## Section 12. Ecological information


### 12.1 Toxicity


Product/ingredient name	Result	Species	Exposure
<b>DMSO</b> Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 µl/L Marine water	Algae - Ulva lactuca	72 hours
<b>SureSelect QXT Enzyme Mix ILM</b> Glycerol Potassium chloride	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodemus subspicatus	72 hours
	Acute EC50 141460 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.92 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 880 mg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>SureSelect QXT Buffer</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>Herculanase II Fusion DNA Polymerase</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>5X Herculanase II Reaction Buffer</b> Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l	Crustaceans - Crangon crangon -	48 hours

## Section 12. Ecological information


	Marine water	Adult	
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### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
 <b>SureSelect QXT Enzyme Mix ILM</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>SureSelect QXT Buffer</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
 <b>SureSelect QXT Enzyme Mix ILM</b> Potassium chloride	-	-	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>SureSelect QXT Enzyme Mix ILM</b> Glycerol	-1.76	-	low
Potassium chloride	-0.46	-	low
<b>SureSelect QXT Buffer</b> Glycerol	-1.76	-	low
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	-1.76	-	low
<b>5X Herculase II Reaction Buffer</b> Trometamol	-1.56	-	low

### 12.4 Mobility in soil

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

## Section 12. Ecological information

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

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

## Section 14. Transport information

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

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

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

## Section 15. Regulatory information

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

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 311:** Edetic acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

## Section 15. Regulatory information

**Clean Air Act Section 602** : Not listed  
**Class II Substances**

**DEA List I Chemicals** : Not listed  
**(Precursor Chemicals)**

**DEA List II Chemicals** : Not listed  
**(Essential Chemicals)**


### SARA 302/304

#### Composition/information on ingredients


No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

<b>Classification</b>	:  <b>DMSO</b>	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B EYE IRRITATION - Category 2B EYE IRRITATION - Category 2B EYE IRRITATION - Category 2B
SureSelect QXT Enzyme Mix ILM		
SureSelect QXT Buffer		
Herculase II Fusion DNA Polymerase		
SureSelect QXT Index Read Primer		Not applicable.
SureSelect QXT Read Primer 1		Not applicable.
SureSelect QXT Read Primer 2		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 P7 i9		Not applicable.
SureSelect QXT P7 i10		Not applicable.
SureSelect QXT P7 i11		Not applicable.
SureSelect QXT P7 i12		Not applicable.
SureSelect QXT P5 i13		Not applicable.
SureSelect QXT P5 i14		Not applicable.
SureSelect QXT P5 i15		Not applicable.
SureSelect QXT P5 i16		Not applicable.
SureSelect QXT P5 i17		Not applicable.
SureSelect QXT P5 i18		Not applicable.
SureSelect QXT P5 i19		Not applicable.
SureSelect QXT P5 i20		Not applicable.
100 mM dNTP Mix (25 mM each dNTP)		Not applicable.
5X Herculase II Reaction Buffer		Not applicable.

#### Composition/information on ingredients

Name	%	Classification
 <b>DMSO</b> Dimethyl sulfoxide	100	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B
<b>SureSelect QXT Enzyme Mix ILM</b> Glycerol Potassium chloride	≥25 - ≤50 ≤3	EYE IRRITATION - Category 2A EYE IRRITATION - Category 2A



## Section 15. Regulatory information

<b>SureSelect QXT Buffer</b> Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
<b>Herculase II Fusion DNA Polymerase</b> Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
<b>5X Herculase II Reaction Buffer</b> Trometamol	≤3	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Hexadecan-1-ol, ethoxylated	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### SARA 313

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

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

### State regulations

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

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.




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

Not listed.

### Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Europe** : Not determined.

## Section 15. Regulatory information


<b>Japan</b>	:  <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>	:  Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	:  Not determined.

## Section 16. Other information

### History

<b>Date of issue</b>	: 05/22/2018
<b>Date of previous issue</b>	: 08/29/2016
<b>Version</b>	: 3

### Procedure used to derive the classification

Classification	Justification
 <b>DMSO</b> FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B	On basis of test data On basis of test data
<b>SureSelect QXT Enzyme Mix ILM</b> EYE IRRITATION - Category 2B	Calculation method
<b>SureSelect QXT Buffer</b> EYE IRRITATION - Category 2B	Calculation method
<b>Herculase II Fusion DNA Polymerase</b> EYE IRRITATION - Category 2B	Calculation method

 Indicates information that has changed from previously issued version.

### Notice to reader

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