SAFETY DATA SHEET



SureVector E. coli N-terminal Promotor kit, 5 rxn, Part Number G7518B

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

1.1 Product identifier

: SureVector E. coli N-terminal Promotor kit, 5 rxn, Part Number G7518B **Product name**

CAS number 5X SureSolution 67-68-5 SureVector AmpR Not applicable.

Selectable Marker

SureVector pUC Origin Not applicable. SureVector XP1 Linker Not applicable. Not applicable. SureVector Lacl

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector T7 E. coli Not applicable.

Promoter

SureVector Tac E. coli Not applicable.

Promoter

SureVector HIS6 E. coli Not applicable.

Expression Tag (N-term)

SureVector Enzyme Mix Not applicable.

10X SureVector Buffer Not applicable. dNTP Mix Not applicable.

DpnI

Not applicable.

Part no. (chemical kit) Part no.

: G7518B

5X SureSolution 5190-8625 SureVector AmpR 5190-8807

Selectable Marker

SureVector pUC Origin 5190-8810 SureVector XP1 Linker 5190-8811 SureVector Lacl 5190-8812

Repressor

SureVector T7-HIS6 E. 5190-8813

coli Promoter

SureVector LacZ Control 5190-8814

(N-term)

SureVector T7 E. coli 5190-8818

Promoter

SureVector Tac E. coli 5190-8820

Promoter

SureVector HIS6 E. coli 5190-8821

Expression Tag (N-term)

SureVector Enzyme Mix 5190-8621 10X SureVector Buffer 5190-8622 dNTP Mix 200518-56 Donl 5190-8624

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

Material uses : Analytical reagent.

> 5X SureSolution 0.1 ml (15 reactions) SureVector AmpR Selectable Marker 0.01 ml (5 reactions) SureVector pUC Origin 0.01 ml (5 reactions) SureVector XP1 Linker 0.01 ml (5 reactions) SureVector LacI Repressor 0.01 ml (5 reactions) SureVector T7-HIS6 E. coli Promoter 0.01 ml (5 reactions) SureVector LacZ Control (N-term) 0.01 ml (5 reactions)

Date of issue/Date of revision Date of previous issue : 28/03/2022 : No previous validation Version: 1 1/56

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

SureVector T7 E. coli Promoter 0.01 ml (5 reactions)
SureVector Tac E. coli Promoter 0.01 ml (5 reactions)
SureVector HIS6 E. coli Expression Tag (N-0.01 ml (5 reactions)

term)

SureVector Enzyme Mix 0.015 ml (15 reactions) 10X SureVector Buffer 0.03 ml (15 reactions)

dNTP Mix 0.03 ml

DpnI 0.015 ml (15 reactions)

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS

: pdl-msds author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : 5X SureSolution Mono-constituent substance

SureVector AmpR Mixture

Selectable Marker

SureVector pUC Origin Mixture
SureVector XP1 Linker Mixture
SureVector Lacl Mixture

Repressor

SureVector T7-HIS6 E. Mixture

coli Promoter

SureVector LacZ Control Mixture

(N-term)

SureVector T7 E. coli Mixture

Promoter

SureVector Tac E. coli Mixture

Promoter

SureVector HIS6 E. coli Mixture

Expression Tag (N-term)

SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl
Mixture
Mixture
Mixture
Mixture

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

10X SureVector Buffer

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 2/56

SECTION 2: Hazards identification

Ingredients of unknown

toxicity

: SureVector Enzyme Mix

10X SureVector Buffer

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

DpnI Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

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

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

2.2 Label elements

Hazard pictograms : 10X SureVector Buffer



Signal word

: 5X SureSolution

SureVector AmpR Selectable Marker

No signal word. No signal word.

SureVector pUC Origin SureVector XP1 Linker

No signal word. No signal word. No signal word.

SureVector Lacl Repressor

SureVector T7-HIS6 E.

coli Promoter

No signal word.

SureVector LacZ Control

No signal word.

(N-term)

SureVector T7 E. coli

Promoter

No signal word.

SureVector Tac E. coli Promoter

No signal word.

SureVector HIS6 E. coli

Expression Tag (N-term)

SureVector Enzyme Mix

No signal word. No signal word.

10X SureVector Buffer dNTP Mix DpnI

Warning No signal word. No signal word.

Hazard statements

5X SureSolution SureVector AmpR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

SureVector T7-HIS6 E.

No known significant effects or critical hazards.

coli Promoter SureVector LacZ Control

(N-term)

No known significant effects or critical hazards.

SureVector T7 E. coli

Promoter

No known significant effects or critical hazards.

SureVector Tac E. coli

Promoter

No known significant effects or critical hazards.

SureVector HIS6 E. coli Expression Tag (N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

No known significant effects or critical hazards.

No known significant effects or critical hazards. H319 - Causes serious eye irritation.

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

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 3/56

SECTION 2: Hazards identification

Pre	caut	ionary	, stater	nents

Response

Storage

Prevention : 5X SureSolution Not applicable. Not applicable. SureVector AmpR

Selectable Marker

SureVector pUC Origin Not applicable. SureVector XP1 Linker Not applicable. Not applicable. SureVector Lacl

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector T7 E. coli Not applicable.

Promoter

SureVector Tac E. coli Not applicable.

Promoter

SureVector HIS6 E. coli Not applicable.

Expression Tag (N-term) SureVector Enzyme Mix

Not applicable. 10X SureVector Buffer

Not applicable.

dNTP Mix

P280 - Wear eye or face protection. Not applicable.

Dpnl

Not applicable. 5X SureSolution Not applicable. SureVector AmpR

Selectable Marker

SureVector pUC Origin Not applicable. Not applicable. SureVector XP1 Linker Not applicable. SureVector Lacl

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector T7 E. coli Not applicable.

Promoter

SureVector Tac E. coli Not applicable.

Promoter

Not applicable. SureVector HIS6 E. coli

Expression Tag (N-term)

SureVector Enzyme Mix Not applicable.

10X SureVector Buffer P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice

or attention.

Not applicable. dNTP Mix Not applicable. DpnI Not applicable. 5X SureSolution SureVector AmpR Not applicable.

Selectable Marker

SureVector pUC Origin Not applicable. SureVector XP1 Linker Not applicable. SureVector Lacl Not applicable.

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector T7 E. coli Not applicable.

Promoter

SureVector Tac E. coli

Not applicable.

Promoter

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version 4/56

SECTION 2: Hazards	S	identification	
		SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix	Not applicable. Not applicable.
		10X SureVector Buffer dNTP Mix	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	:	5X SureSolution SureVector AmpR Selectable Marker	Not applicable. Not applicable.
		SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor	Not applicable. Not applicable. Not applicable.
		SureVector T7-HIS6 E. coli Promoter	Not applicable.
		SureVector LacZ Control (N-term)	Not applicable.
		SureVector T7 E. coli Promoter	Not applicable.
		SureVector Tac E. coli Promoter	Not applicable.
		SureVector HIS6 E. coli Expression Tag (N-term)	Not applicable.
		SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	:	SureVector Enzyme Mix 10X SureVector Buffer DpnI	Not applicable. Not applicable. Not applicable.
Supplemental label elements	:	5X SureSolution SureVector AmpR Selectable Marker	Not applicable. Not applicable.
		SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor	Not applicable. Not applicable. Not applicable.
		SureVector T7-HIS6 E. coli Promoter	Not applicable.
		SureVector LacZ Control (N-term)	Not applicable.
		SureVector T7 E. coli Promoter	Not applicable.
		SureVector Tac E. coli Promoter	Not applicable.
		SureVector HIS6 E. coli Expression Tag (N-term)	Not applicable.
		SureVector Enzyme Mix 10X SureVector Buffer	Not applicable. Not applicable.
		dNTP Mix DpnI	Not applicable. Not applicable. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture,	:	5X SureSolution SureVector AmpR	Not applicable. Not applicable.
placing on the market and use of certain dangerous substances, mixtures and articles		Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl	Not applicable. Not applicable. Not applicable.
		Repressor SureVector T7-HIS6 E.	Not applicable.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version:1 5/56

SureVector LacZ Control Not applicable.

coli Promoter

SECTION 2: Hazards identification

(N-term)

SureVector T7 E. coli

Promoter

Not applicable.

SureVector Tac E. coli

Promoter

Not applicable. Not applicable.

SureVector HIS6 E. coli

Expression Tag (N-term)

SureVector Enzyme Mix 10X SureVector Buffer

Not applicable. Not applicable.

dNTP Mix DpnI

Not applicable. Not applicable.

Special packaging requirements

Tactile warning of danger

: 5X SureSolution SureVector AmpR Selectable Marker Not applicable. Not applicable.

SureVector pUC Origin SureVector XP1 Linker

Not applicable. Not applicable.

SureVector Lacl

Not applicable.

Repressor

SureVector T7-HIS6 E. coli Promoter

Not applicable.

SureVector LacZ Control

Not applicable.

(N-term)

SureVector T7 E. coli

Not applicable.

Promoter

SureVector Tac E. coli

DpnI

Promoter

Not applicable.

SureVector HIS6 E. coli

Not applicable.

Expression Tag (N-term) SureVector Enzyme Mix

Not applicable. Not applicable. Not applicable.

10X SureVector Buffer dNTP Mix

Not applicable.

2.3 Other hazards

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

PBT	Р	В	Т	vPvB	vP	vB	
5X SureSolution No	N/A	No	No	No	N/A	No	

SureVector AmpR Selectable Marker SureVector pUC Origin This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

SureVector XP1 Linker This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

SureVector Lacl

This mixture does not contain any substances that are

Repressor assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

SureVector T7-HIS6 E. coli Promoter

assessed to be a PBT or a vPvB.

SureVector LacZ Control

This mixture does not contain any substances that are

(N-term)

assessed to be a PBT or a vPvB.

SureVector T7 E. coli

This mixture does not contain any substances that are

Promoter

assessed to be a PBT or a vPvB.

SureVector Tac E. coli

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

Promoter

This mixture does not contain any substances that are

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix

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

assessed to be a PBT or a vPvB.

10X SureVector Buffer This mixture does not contain any substances that are

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 6/56

SECTION 2: Hazards identification

assessed to be a PBT or a vPvB.

dNTP Mix This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

DpnI This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

5X SureSolution SureVector AmpR Selectable Marker None known. None known.

SureVector pUC Origin None known.

SureVector XP1 Linker None known. SureVector Lacl None known.

Repressor

SureVector T7-HIS6 E. None known.

coli Promoter

SureVector LacZ Control None known.

(N-term)

SureVector T7 E. coli

None known.

Promoter

SureVector Tac E. coli

None known.

Promoter

SureVector HIS6 E. coli

None known.

Expression Tag (N-term) SureVector Enzyme Mix

None known. None known.

10X SureVector Buffer dNTP Mix

None known. None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

: 5X SureSolution SureVector AmpR Selectable Mono-constituent substance

Marker

DpnI

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Mixture Mixture Mixture

Mixture

Mixture

Promoter

DpnI

SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter

Mixture Mixture Mixture

Mixture

SureVector HIS6 E. coli Expression Tag (N-term)

Mixture Mixture

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix Mixture Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
5X SureSolution				
Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	[A]
SureVector Enzyme Mix				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	CAS: 9036-19-5	<0.25	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [5]

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 7/56

SECTION 3: Composition/information on ingredients

· · · · · · · · · · · · · · · · · · ·				
10X SureVector Buffer Ammonium sulphate	EC: 231-984-1 CAS: 7783-20-2	≤3	Eye Irrit. 2, H319	[1]
Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	<2.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1] [5]
DpnI				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the H statements declared above.	

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

Type

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: 5X SureSolution

SureVector AmpR Selectable Marker

SureVector pUC Origin

SureVector XP1 Linker

SureVector LacI Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector T7 E. coli

Promoter

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. 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. 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. 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. 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. 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. 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. 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.

Date of issue/Date of revision Date of previous issue Version:1 : 28/03/2022 : No previous validation 8/56

SECTION 4: First aid measures

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Expression Tag (N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

DpnI

Inhalation : 5X SureSolution

SureVector AmpR Selectable Marker

SureVector pUC Origin

SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli

Expression Tag (N-term)

SureVector Enzyme Mix

10X SureVector 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.

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.

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.

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.

Get medical attention.

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. 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.

Remove victim to fresh air and keep at rest in a 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.

Remove victim to fresh air and keep at rest in a 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.

Remove victim to fresh air and keep at rest in a 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.

Remove victim to fresh air and keep at rest in a 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.

Remove victim to fresh air and keep at rest in a 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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

Remove victim to fresh air and keep at rest in a position

symptoms occur.

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-tomouth 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. In case of inhalation of

decomposition products in a fire, symptoms may be delayed.

Date of previous issue : No previous validation Version :1 Date of issue/Date of revision : 28/03/2022 9/56

SECTION 4: First aid measures

		The exposed person may need to be kept under medical surveillance for 48 hours.
	dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Dpnl	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: 5X SureSolution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector AmpR Selectable Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector pUC Origin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	SureVector XP1 Linker	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	SureVector Lacl Repressor	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	SureVector T7-HIS6 E. coli Promoter	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	SureVector LacZ Control (N-term)	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector T7 E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector Tac E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector HIS6 E. coli Expression Tag (N-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	SureVector Enzyme Mix	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if
	10X SureVector Buffer	symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes
	dNTP Mix	thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Dpnl	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 5X SureSolution	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector AmpR Selectable Marker	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce veniting unless directed to

Date of issue/Date of revision: 28/03/2022Date of previous issue: No previous validationVersion: 1

SureVector pUC Origin

symptoms occur.

of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

Wash out mouth with water. If material has been swallowed

SECTION 4: First aid measures

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.

SureVector XP1 Linker Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector Lacl Repressor

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector T7-HIS6 E. coli Promoter

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector LacZ Control

(N-term)

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector T7 E. coli

Promoter

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector Tac E. coli

Promoter

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector HIS6 E. coli Expression Tag (N-term)

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector Enzyme Mix

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

10X SureVector Buffer

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

dNTP Mix

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

DpnI Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities

Date of issue/Date of revision Date of previous issue : No previous validation Version:1 : 28/03/2022 11/56

SECTION 4: First aid measures

Protection of first-aiders

: 5X SureSolution

of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

No action shall be taken involving any personal risk or

without suitable training.

SureVector AmpR No action shall be taken involving any personal risk or Selectable Marker without suitable training.

No action shall be taken involving any personal risk or SureVector pUC Origin

without suitable training. SureVector XP1 Linker No action shall be taken involving any personal risk or

without suitable training.

SureVector Lacl No action shall be taken involving any personal risk or

Repressor without suitable training.

SureVector T7-HIS6 E. No action shall be taken involving any personal risk or

coli Promoter without suitable training.

SureVector LacZ Control No action shall be taken involving any personal risk or

without suitable training. (N-term)

SureVector T7 E. coli No action shall be taken involving any personal risk or

Promoter without suitable training.

SureVector Tac E. coli No action shall be taken involving any personal risk or Promoter

without suitable training.

SureVector HIS6 E. coli No action shall be taken involving any personal risk or

without suitable training. Expression Tag (N-term)

SureVector Enzyme Mix No action shall be taken involving any personal risk or

without suitable training.

10X SureVector 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.

dNTP Mix No action shall be taken involving any personal risk or

without suitable training.

No action shall be taken involving any personal risk or DpnI

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

Eye contact

: 5X SureSolution SureVector AmpR

Selectable Marker SureVector pUC Origin

SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli

Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. Causes serious eye irritation.

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

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 12/56

SECTION 4: First aid measures

		la		

: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

Skin contact

Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

5X SureSolution

SureVector Lacl

SureVector AmpR Selectable Marker SureVector pUC Origin

SureVector XP1 Linker

5X SureSolution

SureVector AmpR

Ingestion

Repressor
SureVector T7-HIS6 E.
coli Promoter
SureVector LacZ Control
(N-term)
SureVector T7 E. coli
Promoter
SureVector Tac E. coli
Promoter
SureVector HIS6 E. coli
Expression Tag (N-term)
SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl

SECTION 4: First aid measures

Over-exposure signs/symptoms

Inhalation

Eye contact : 5X SureSolution No specific data. No specific data. SureVector AmpR

Selectable Marker

SureVector pUC Origin No specific data. SureVector XP1 Linker No specific data. No specific data. SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli Expression Tag (N-term)

SureVector Enzyme Mix

10X SureVector Buffer

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

Adverse symptoms may include the following:

pain or irritation watering

redness No specific data.

dNTP Mix DpnI No specific data. 5X SureSolution No specific data. No specific data. SureVector AmpR

Selectable Marker

SureVector pUC Origin No specific data. SureVector XP1 Linker No specific data. SureVector Lacl No specific data.

Repressor

SureVector T7-HIS6 E. No specific data.

coli Promoter

SureVector LacZ Control No specific data.

(N-term)

SureVector T7 E. coli No specific data.

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli

Expression Tag (N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix DpnI

No specific data.

No specific data. No specific data.

Skin contact 5X SureSolution

SureVector AmpR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli

No specific data.

No specific data.

No specific data.

No specific data. No specific data.

No specific data. No specific data. No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version 14/56

SECTION 4: First aid measures

Expression Tag (N-term) SureVector Enzyme Mix

10X SureVector Buffer dNTP Mix DpnI

No specific data. No specific data. No specific data. No specific data.

No specific data.

: 5X SureSolution

SureVector AmpR Selectable Marker

No specific data. No specific data.

SureVector pUC Origin SureVector XP1 Linker

No specific data. No specific data.

SureVector Lacl Repressor

SureVector T7-HIS6 E.

No specific data.

coli Promoter

SureVector LacZ Control

No specific data.

(N-term)

SureVector T7 E. coli

Promoter

No specific data.

SureVector Tac E. coli

No specific data.

Promoter

SureVector HIS6 E. coli

Expression Tag (N-term)

No specific data.

SureVector Enzyme Mix 10X SureVector Buffer

No specific data. No specific data. No specific data.

dNTP Mix DpnI No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Ingestion

: 5X SureSolution

SureVector AmpR Selectable Marker SureVector pUC Origin

SureVector XP1 Linker

SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

Dpnl

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 15/56

SECTION 4: First aid measures

Obecine dedinents	Spe	cific	: trea	tments
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: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term) SureVector T7 E. coli

Promoter SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

No specific treatment. No specific treatment.

No specific treatment. No specific treatment. No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin

SureVector XP1 Linker SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

(N-term)

SureVector T7 E. coli Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Expression Tag (N-term)

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

DpnI

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

SureVector LacZ Control Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

5X SureSolution SureVector AmpR

Selectable Marker SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl

Repressor SureVector T7-HIS6 E.

coli Promoter SureVector LacZ Control

(N-term) SureVector T7 E. coli

Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Expression Tag (N-term) None known. None known.

None known. None known. None known.

None known.

None known.

None known.

None known.

None known.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 16/56

coli Promoter

Promoter

Promoter

SECTION 5: Firefighting measures

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix Donl

None known. None known. None known.

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : 5X SureSolution In a fire or if heated, a pressure increase will occur and the

container may burst.

SureVector AmpR In a fire or if heated, a pressure increase will occur and the

Selectable Marker container may burst.

SureVector pUC Origin In a fire or if heated, a pressure increase will occur and the

container may burst.

In a fire or if heated, a pressure increase will occur and the SureVector XP1 Linker

container may burst.

In a fire or if heated, a pressure increase will occur and the SureVector Lacl

Repressor container may burst.

SureVector T7-HIS6 E. In a fire or if heated, a pressure increase will occur and the

container may burst.

SureVector LacZ Control In a fire or if heated, a pressure increase will occur and the

(N-term) container may burst.

SureVector T7 E. coli In a fire or if heated, a pressure increase will occur and the

container may burst.

SureVector Tac E. coli In a fire or if heated, a pressure increase will occur and the

container may burst.

In a fire or if heated, a pressure increase will occur and the SureVector HIS6 E. coli

Expression Tag (N-term) container may burst.

In a fire or if heated, a pressure increase will occur and the SureVector Enzyme Mix

container may burst.

In a fire or if heated, a pressure increase will occur and the 10X SureVector Buffer

container may burst.

In a fire or if heated, a pressure increase will occur and the dNTP Mix

container may burst.

Dpnl In a fire or if heated, a pressure increase will occur and the

container may burst.

Hazardous combustion products

5X SureSolution Decomposition products may include the following materials:

> carbon dioxide carbon monoxide sulfur oxides No specific data.

SureVector AmpR Selectable Marker

SureVector pUC Origin No specific data. SureVector XP1 Linker No specific data. No specific data. SureVector Lacl

Repressor

SureVector T7-HIS6 E. No specific data.

coli Promoter

SureVector LacZ Control No specific data.

(N-term)

SureVector T7 E. coli

No specific data.

Promoter

SureVector Tac E. coli

No specific data.

Promoter

SureVector HIS6 E. coli

No specific data.

Expression Tag (N-term) SureVector Enzyme Mix

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

10X SureVector Buffer Decomposition products may include the following materials:

> carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version 17/56

SECTION 5: Firefighting measures

halogenated compounds

metal oxide/oxides No specific data.

dNTP Mix No specific data

DpnI Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: 5X SureSolution

SureVector AmpR Selectable Marker

SureVector pUC Origin

SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector T7 E. coli Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Expression Tag (N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

Dpnl

Special protective equipment for fire-fighters

: 5X SureSolution

SureVector AmpR Selectable Marker 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. 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. 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. 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. 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. 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.

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

Promptly isolate the scene by removing all persons from the

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.

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

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 18/56

SECTION 5: Firefighting measures

conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SureVector pUC Origin Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector XP1 Linker Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector Lacl Fire-fighters should wear appropriate protective equipment Repressor and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector T7-HIS6 E. Fire-figh coli Promoter and self-

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector LacZ Control

(N-term)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector T7 E. coli Promoter Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector Tac E. coli

Promoter

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector HIS6 E. coli Expression Tag (N-term) Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector Enzyme Mix Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

10X SureVector Buffer Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

dNTP Mix Fire-fighters should wear appropriate protective equipment

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 19/56

SECTION 5: Firefighting measures

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

DpnI Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector AmpR No action shall be taken involving any personal risk or Selectable Marker without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector pUC Origin

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector XP1 Linker No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector Lacl

Repressor

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector T7-HIS6 E.

coli Promoter

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector LacZ Control

(N-term)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector T7 E. coli

Promoter

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector Tac E. coli

Promoter

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector HIS6 E. coli No action shall be taken involving any personal risk or Expression Tag (N-term) without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 20/56

SECTION 6: Accidental release measures

For emergency

responders

Do not touch or walk through spilt material. Put on appropriate personal protective equipment. SureVector Enzyme Mix No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or 10X SureVector Buffer without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. dNTP Mix No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Donl No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. : 5X SureSolution If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". If specialised clothing is required to deal with the spillage, SureVector AmpR Selectable Marker take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". SureVector pUC Origin If specialised clothing is required to deal with the spillage. take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". If specialised clothing is required to deal with the spillage, SureVector XP1 Linker take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". SureVector Lacl If specialised clothing is required to deal with the spillage, Repressor take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". SureVector T7-HIS6 E. If specialised clothing is required to deal with the spillage, coli Promoter

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

SureVector LacZ Control

(N-term)

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

emergency personnel".

SureVector T7 E. coli

Promoter

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

emergency personnel".

SureVector Tac E. coli

Promoter

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

emergency personnel".

SureVector HIS6 E. coli Expression Tag (N-term) If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

Version :1 Date of issue/Date of revision Date of previous issue : No previous validation : 28/03/2022 21/56

SECTION 6: Accidental release measures

emergency personnel".

SureVector Enzyme Mix If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

10X SureVector Buffer If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

dNTP Mix If specialised clothing is required to deal with the spillage,

> take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Dpnl If specialised clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

6.2 Environmental precautions

: 5X SureSolution Avoid dispersal of spilt material and runoff and contact with

> soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector AmpR

Avoid dispersal of spilt material and runoff and contact with Selectable Marker soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector pUC Origin Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector XP1 Linker Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector Lacl Repressor

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector T7-HIS6 E.

coli Promoter

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector LacZ Control

(N-term)

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector T7 E. coli

Promoter

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector Tac E. coli

Promoter

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector HIS6 E. coli Expression Tag (N-term) Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector Enzyme Mix

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

(sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with 10X SureVector Buffer

: No previous validation Date of issue/Date of revision : 28/03/2022 Date of previous issue Version: 1 22/56

SECTION 6: Accidental release measures

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

dNTP Mix Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

DpnI Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: 5X SureSolution 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.

SureVector AmpR Stop leak if without risk. Move containers from spill area. Selectable Marker Dilute with water and mop up if water-soluble. Alternativel

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.

SureVector pUC Origin 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.

SureVector XP1 Linker 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.

SureVector Lacl Stop leak if without risk. Move containers from spill area.

Repressor 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.

SureVector T7-HIS6 E.

coli Promoter

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.

SureVector LacZ Control

(N-term)

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.

SureVector T7 E. coli

Promoter

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.

SureVector Tac E. coli

Promoter

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.

SureVector HIS6 E. coli Expression Tag (N-term)

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

Stop leak if without risk. Move containers from spill area.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version :1 23/56

SECTION 6: Accidental release measures

of via a licensed waste disposal contractor.

SureVector Enzyme Mix Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. May be harmful to the environment if released. Dispose of spillages

under controlled conditions.

10X SureVector 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. May be harmful to the environment if released. Dispose of spillages

under controlled conditions.

dNTP Mix Stop leak if without risk. Move containers from spill area.

> Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

DpnI Stop leak if without risk. Move containers from spill area.

> Dilute with water and mop up if water-soluble. Alternatively. or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : 5X SureSolution Put on appropriate personal protective equipment (see

Section 8).

SureVector AmpR Put on appropriate personal protective equipment (see

Selectable Marker Section 8).

SureVector pUC Origin Put on appropriate personal protective equipment (see

Section 8).

SureVector XP1 Linker Put on appropriate personal protective equipment (see

Section 8).

Section 8).

Section 8).

SureVector Lacl Put on appropriate personal protective equipment (see

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

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli

Expression Tag (N-term)

SureVector Enzyme Mix

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

Put on appropriate personal protective equipment (see

Section 8).

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

Section 8).

10X SureVector Buffer Put on appropriate personal protective equipment (see

Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.

dNTP Mix Put on appropriate personal protective equipment (see

Section 8).

Dpnl Put on appropriate personal protective equipment (see

Date of issue/Date of revision Date of previous issue : No previous validation : 28/03/2022 Version: 1 24/56

SECTION 7: Handling and storage

Advice on general
occupational hygiene

Section 8). : 5X SureSolution Eating, drinking and smoking should be prohibited in areas

SureVector AmpR Selectable Marker 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.

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

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. 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

SureVector Enzyme Mix where this material is handled, stored and processed.

SureVector XP1 Linker

SureVector pUC Origin

SureVector LacI Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector T7 E. coli Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Expression Tag (N-term)

Date of issue/Date of revision

Date of previous issue : 28/03/2022

: No previous validation

Version :1

25/56

dNTP Mix

DpnI

SECTION 7: Handling and storage

10X SureVector Buffer

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

Workers should wash hands and face before eating,

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage : 5X SureSolution

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

before handling or use.

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

contamination. See Section 10 for incompatible materials before handling or use.

SureVector pUC Origin

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

contamination. See Section 10 for incompatible materials

before handling or use.

SureVector XP1 Linker

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

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 26/56

SECTION 7: Handling and storage

SureVector Lacl Repressor

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

SureVector T7-HIS6 E. coli Promoter

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

SureVector LacZ Control (N-term)

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

SureVector T7 E. coli Promoter

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

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

SureVector HIS6 E. coli Expression Tag (N-term) Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureVector Enzyme Mix Store in accordance with local regulations. Store in original

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 27/56

SECTION 7: Handling and storage

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

before handling or use.

10X SureVector Buffer

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

before handling or use.

dNTP Mix

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

before handling or use.

Dpnl

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

before handling or use.

7.3 Specific end use(s) Recommendations

: 5X SureSolution
SureVector AmpR
Selectable Marker
SureVector pUC Origin
SureVector XP1 Linker
SureVector Lacl
Repressor
SureVector T7-HIS6 E.
Industrial applications, In

coli Promoter

SureVector LacZ Control (N-term)

SureVector T7 E. coli Promoter

SureVector Tac E. coli

Promoter
SureVector HIS6 E. coli
Expression Tag (N-term

Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 28/56

SECTION 7: Handling and storage

Industrial sector specific solutions

: 5X SureSolution Not available. SureVector AmpR Not available. Selectable Marker SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available. Repressor SureVector T7-HIS6 E. Not available. coli Promoter SureVector LacZ Control Not available. (N-term) SureVector T7 E. coli Not available. Promoter SureVector Tac E. coli Not available. Promoter SureVector HIS6 E. coli Not available. Expression Tag (N-term) SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available.

SECTION 8: Exposure controls/personal protection

dNTP Mix

DpnI

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SureVector Enzyme Mix	
Glycerol	NAOSH (Ireland, 1/2020).
	OELV-8hr: 10 mg/m³ 8 hours. Form: mist
DpnI	
Glycerol	NAOSH (Ireland, 1/2020).
	OELV-8hr: 10 mg/m³ 8 hours. Form: mist

Not available.

Not available.

Recommended monitoring procedures

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

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
5X SureSolution					
Dimethyl sulfoxide	DNEL	Long term Inhalation	47 mg/m³	General population	Local
	DNEL	Long term Oral	60 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	100 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	120 mg/m³	General population	Systemic
	DNEL	Long term Dermal	200 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	265 mg/m ³	Workers	Local

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 29/56

SECTION 8: Exposure controls/personal protection

•			1		
	DNEL	Inhalation Long term Inhalation	484 mg/m³	Workers	Systemic
10X SureVector Buffer					
Ammonium sulphate	DNEL	Long term	1.667 mg/	General	Systemic
		Inhalation	m³	population	_
	DNEL	Long term Oral	6.4 mg/kg	General	Systemic
			bw/day	population	_
	DNEL	Long term	11.167 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Long term Dermal	12.8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	42.667 mg/	Workers	Systemic
			kg bw/day		
Dpnl					
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
	5. IEI		kg bw/day	population	
	DNEL	Long term Oral	126.65 mg/	General	Systemic
	DAIEI	Ol	kg bw/day	population	0
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
	DNE		kg bw/day	population	04:-
	DNEL	Long term Dermal	126.65 mg/	General	Systemic
	DNE	Chart tarm Darmal	kg bw/day	population	Customia
	DNEL	Short term Dermal	295.52 mg/	Workers	Systemic
	DNEI	Long torm Dormal	kg bw/day	Markara	Systemia
	DNEL	Long term Dermal	295.52 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term	443.28 mg/	General	Systemic
	DINEL	Inhalation	m ³	population	Systemic
	DNEL	Long term	443.28 mg/	General	Systemic
	DINCL	Inhalation	m ³	population	Gysterrife
	DNEL	Short term	2068.62	Workers	Systemic
	DIVLL	Inhalation	mg/m ³	VVOINGIS	Cysternic
	DNEL	Long term	2068.62	Workers	Systemic
	DIVLL	Inhalation	mg/m³	VVOIROIS	Cyclonno
		minalation	1119/111		

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

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.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 30/56

SECTION 8: Exposure controls/personal protection

Body protection

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

Other skin protection

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

Respiratory protection

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : 5X SureSolution Liquid. [Clear.]

SureVector AmpR Liquid.

Selectable Marker

SureVector pUC Origin Liquid.
SureVector XP1 Linker Liquid.
SureVector Lacl Liquid.

Repressor

SureVector T7-HIS6 E. Liquid.

coli Promoter

SureVector LacZ Control Liquid.

(N-term)

SureVector T7 E. coli Liquid.

Promoter

SureVector Tac E. coli Liquid.

Promoter

SureVector HIS6 E. coli Liquid.

Expression Tag (N-term)

SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl
Liquid.
Liquid.
Liquid.
Liquid.

Colour

: 5X SureSolution Blue. SureVector AmpR Not available.

Selectable Marker

SureVector pUC Origin Not available.
SureVector XP1 Linker Not available.
SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

SureVector LacZ Control Not available.

(N-term)

SureVector T7 E. coli Not available.

Promoter

SureVector Tac E. coli Not available.

Promoter

SureVector HIS6 E. coli Not available.

Expression Tag (N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 31/56

SECTION 9: Physical and chemical properties

SECTION 9. Physical	and onomious prop	011100
	dNTP Mix Dpnl	Not available. Not available.
Odour :	5X SureSolution	Odourless. [Slight]
·	SureVector AmpR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	Not available.
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector LacZ Control (N-term)	Not available.
	SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	Dpnl	Not available.
Odour threshold :	5X SureSolution	Not available.
Oddar tirresiloid .	SureVector AmpR	Not available.
	Selectable Marker	Not available.
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	rtot avallabio.
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector LacZ Control (N-term)	Not available.
	SureVector T7 E. coli Promoter	Not available.
	SureVector Tac E. coli Promoter	Not available.
	SureVector HIS6 E. coli Expression Tag (N-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	Dpnl	Not available.
0.	5X SureSolution	18.5°C
point	SureVector AmpR Selectable Marker	0°C
	SureVector pUC Origin	0°C
	SureVector XP1 Linker	0°C
	SureVector Lacl Repressor	0°C
	SureVector T7-HIS6 E. coli Promoter	0°C
	SureVector LacZ Control (N-term)	0°C
	SureVector T7 E. coli Promoter	0°C
	SureVector Tac E. coli Promoter	0°C
	SureVector HIS6 E. coli Expression Tag (N-term)	0°C
	SureVector Enzyme Mix	Not available.

Date of issue/Date of revision: 28/03/2022Date of previous issue: No previous validationVersion: 1

SECTION 9: Physical and chemical properties

SECTION 9. Physical	and chemical prop	
	10X SureVector Buffer dNTP Mix	Not available. 0°C
	Dpnl	Not available.
Initial boiling point and	5X SureSolution	189°C (372.2°F)
boiling range	SureVector AmpR	100°C (212°F)
bonning runge	Selectable Marker	100 0 (2121)
	SureVector pUC Origin	100°C (212°F)
	SureVector XP1 Linker	100°C (212°F)
	SureVector Lacl	100°C (212°F)
	Repressor	(=)
	SureVector T7-HIS6 E.	100°C (212°F)
	coli Promoter	,
	SureVector LacZ Control	100°C (212°F)
	(N-term)	
	SureVector T7 E. coli	100°C (212°F)
	Promoter	
	SureVector Tac E. coli	100°C (212°F)
	Promoter	
	SureVector HIS6 E. coli	100°C (212°F)
	Expression Tag (N-term)	NI - 4 II - I-I -
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer dNTP Mix	Not available. 100°C (212°F)
	Dpnl	Not available.
Flormability (colid gos)	5X SureSolution	
Flammability (solid, gas)	SureVector AmpR	Not applicable. Not applicable.
	Selectable Marker	пот аррисавіе.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector Lacl	Not applicable.
	Repressor	
	SureVector T7-HIS6 E.	Not applicable.
	coli Promoter	
	SureVector LacZ Control	Not applicable.
	(N-term)	
	SureVector T7 E. coli	Not applicable.
	Promoter	Not opplischle
	SureVector Tac E. coli	Not applicable.
	Promoter SureVector HIS6 E. coli	Not applicable.
	Expression Tag (N-term)	посаррисавіе.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	Dpnl	Not applicable.
Upper/lower flammability	5X SureSolution	Lower: 2.6%
or explosive limits		Upper: 28.5%
·	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	A1 (21 1 1
	SureVector T7-HIS6 E.	Not available.
	coli Promoter	Not available.
	SureVector LacZ Control (N-term)	NOL avallable.
	SureVector T7 E. coli	Not available.
	Promoter	. 10t a valiable.
	SureVector Tac E. coli	Not available.
	Promoter	
	SureVector HIS6 E. coli	Not available.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 33/56

SECTION 9: Physical and chemical properties

Expression Tag (N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available. dNTP Mix Not available. DpnI Not available.

Flash point : 5X SureSolution Closed cup: 87°C (188.6°F) [ASTM D 93]

Open cup: 87°C (188.6°F) Not available.

SureVector AmpR

Selectable Marker

Not available. SureVector pUC Origin SureVector XP1 Linker Not available. SureVector LacI Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

Not available. SureVector LacZ Control

(N-term)

SureVector T7 E. coli Not available.

Promoter

SureVector Tac E. coli Not available.

Promoter

SureVector HIS6 E. coli Not available.

Expression Tag (N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available. dNTP Mix Not available. Not available. DpnI

		Closed	cup		Ope	n cup
Ingredient name	°C	°F	Method	°C	°F	Method
SureVector AmpR Selectable Marker						
Edetic acid	>100	>212	DIN 51758			
SureVector pUC Origin						
Edetic acid	>100	>212	DIN 51758			
SureVector XP1 Linker						
Edetic acid	>100	>212	DIN 51758			
SureVector Lacl Repressor						
Edetic acid	>100	>212	DIN 51758			
SureVector T7-HIS6 E. coli Promoter						
Edetic acid	>100	>212	DIN 51758			
SureVector LacZ Control (N-term)						
Edetic acid	>100	>212	DIN 51758			
SureVector T7 E. coli Promoter						
Edetic acid	>100	>212	DIN 51758			
SureVector Tac E. coli						

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 34/56

SECTION 9: Physical and chemical properties

Promoter					
Edetic acid	>100	>212	DIN 51758		
SureVector HIS6 E. coli Expression Tag (N-term)					
Edetic acid	>100	>212	DIN 51758		
Edotto dold	100	7212	B.14 0 17 00		
SureVector Enzyme Mix					
Edetic acid	>100	>212	DIN 51758		
Poly(oxy-1,2-ethanediyl),	>109.85	>229.7			
alpha[(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
10X SureVector Buffer					
TOX Surevector Burler					
Polyoxyethylene octyl phenyl ether	>109.85	>229.7			
priority care.					
dNTP Mix					
Edetic acid	>100	>212	DIN 51758		
DpnI					
Edetic acid	>100	>212	DIN 51758		
(R*,R*)	>110	>230			
-1,4-Dimercaptobutane- 2,3-diol					
5X SureSolution	300	to 302°C	(572 to 575.6°	F)	•

Auto-ignition temperature

5X SureSolution 300 to 302°C (572 to 575.6°F)

SureVector AmpR Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. Not available. SureVector Lacl

Repressor

Not available. SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

Not available.

(N-term)

SureVector T7 E. coli

Not available.

Promoter

SureVector Tac E. coli

Not available.

Promoter

SureVector HIS6 E. coli

Not available.

Expression Tag (N-term)

Not available.

SureVector Enzyme Mix 10X SureVector Buffer

Not available.

dNTP Mix DpnI

Not available. Not available.

°C	°F	Method
>400	>752	VDI 2263
>400	>752	VDI 2263
	>400	>400 >752

Date of issue/Date of revision Date of previous issue Version:1 : 28/03/2022 : No previous validation 35/56

SECTION 9: Physical and chemical properties

ana onomioai proportio			
Edetic acid	>400	>752	VDI 2263
SureVector LacI Repressor			
Edetic acid	>400	>752	VDI 2263
SureVector T7-HIS6 E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector LacZ Control (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector T7 E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector Tac E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector HIS6 E. coli Expression			
Tag (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector Enzyme Mix			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263
dNTP Mix			
Edetic acid	>400	>752	VDI 2263
DpnI			
Glycerol	370	698	
			VDI 0000
Edetic acid	>400	>752	VDI 2263
5X SureSolution 140 to	o 189°C		

Decomposition temperature

Luctio acid	7 400
5X SureSolution	140 to 189°C
SureVector AmpR	Not available.
Selectable Marker	
SureVector pUC Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector Lacl	Not available.
Repressor	
SureVector T7-HIS6 E.	Not available.
coli Promoter	
SureVector LacZ Control	Not available.
(N-term)	
SureVector T7 E. coli	Not available.
Promoter	N
SureVector Tac E. coli	Not available.
Promoter	NI-4
SureVector HIS6 E. coli	Not available.
Expression Tag (N-term)	Not eveileble
SureVector Enzyme Mix 10X SureVector Buffer	Not available.
dNTP Mix	Not available. Not available.
	Not available.
Dpnl	inut avallable.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 36/56

SECTION 9: Physical and chemical properties

	<u> </u>	
pH	 5X SureSolution 	Not available.
	SureVector AmpR	8
	Selectable Marker	
	SureVector pUC Origin	8
	SureVector XP1 Linker	8
	SureVector Lacl	8
		ŭ
	Repressor	0
	SureVector T7-HIS6 E.	8
	coli Promoter	
	SureVector LacZ Control	8
	(N-term)	
	SureVector T7 E. coli	8
	Promoter	
	SureVector Tac E. coli	8
	Promoter	·
		0
	SureVector HIS6 E. coli	8
	Expression Tag (N-term)	
	SureVector Enzyme Mix	8.2
	10X SureVector Buffer	8.8
	dNTP Mix	7.5
	Dpnl	7.5
Viscosity	: 5X SureSolution	Dynamic: 2.14 mPa·s
Viscosity	SureVector AmpR	Not available.
	•	Not available.
	Selectable Marker	M-4 9-11.
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	
	SureVector T7-HIS6 E.	Not available.
	coli Promoter	
	SureVector LacZ Control	Not available.
	(N-term)	1101 01 01101
	SureVector T7 E. coli	Not available.
	Promoter	Not available.
		Net evelleble
	SureVector Tac E. coli	Not available.
	Promoter	
	SureVector HIS6 E. coli	Not available.
	Expression Tag (N-term)	
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	Dpnl	Not available.
Solubility(ies)		
Solubility(les)	5X SureSolution	Easily soluble in the following materials: cold water and hot
	0 1/ / 0 5	water.
	SureVector AmpR	Easily soluble in the following materials: cold water and hot
	Selectable Marker	water.
	SureVector pUC Origin	Easily soluble in the following materials: cold water and hot
		water.
	SureVector XP1 Linker	Easily soluble in the following materials: cold water and hot
		water.
	SureVector Lacl	Easily soluble in the following materials: cold water and hot
	Repressor	water.
	SureVector T7-HIS6 E.	Easily soluble in the following materials: cold water and hot
	coli Promoter	water.
	SureVector LacZ Control	Easily soluble in the following materials: cold water and hot
	(N-term)	water.
	SureVector T7 E. coli	Easily soluble in the following materials: cold water and hot
	Promoter	water.
	SureVector Tac E. coli	Easily soluble in the following materials: cold water and hot
	Promoter	water.
	SureVector HIS6 E. coli	Easily soluble in the following materials: cold water and hot
	Expression Tag (N-term)	water.
	,	
Date of issue/Date of revision	: 28/03/2022 Date of previous	s issue : No previous validation Version : 1 37/56

Date of issue/Date of revision: 28/03/2022Date of previous issue: No previous validationVersion: 1

SECTION 9: Physical and chemical properties

SureVector Enzyme Mix Soluble in the following materials: cold water and hot water. 10X SureVector Buffer Easily soluble in the following materials: cold water and hot

dNTP Mix Easily soluble in the following materials: cold water and hot

DpnI Easily soluble in the following materials: cold water and hot

water.

Partition coefficient: noctanol/water

Vapour pressure

5X SureSolution -1.35

SureVector AmpR

Not applicable.

Selectable Marker

SureVector pUC Origin Not applicable. SureVector XP1 Linker Not applicable. SureVector Lacl Not applicable.

Repressor

SureVector T7-HIS6 E.

Not applicable.

Not available.

Not available.

Not available.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector T7 E. coli Not applicable.

Promoter

SureVector Tac E. coli Not applicable.

Promoter

SureVector HIS6 E. coli Not applicable.

Expression Tag (N-term)

SureVector Enzyme Mix Not applicable. 10X SureVector Buffer Not applicable. Not applicable. dNTP Mix Not applicable.

Donl 5X SureSolution

0.056 kPa (0.42 mm Hg) [EU A.4]

SureVector AmpR

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. Not available. SureVector Lacl

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

SureVector LacZ Control Not available.

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli Promoter

SureVector HIS6 E. coli Not available.

Expression Tag (N-term)

10X SureVector Buffer dNTP Mix

SureVector Enzyme Mix Not available. Not available. Not available. Not available. DpnI

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
SureVector AmpR Selectable Marker						
Water	23.8	3.2		92.258	12.3	
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
SureVector pUC Origin						

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version 38/56

SECTION 9: Physical and chemical properties

Water
(hydroxymethyl)propane- 1,3-diol hydrochloride SureVector XP1 Linker Water 23.8 3.2 92.258 12.3 0.000027 0.0000036 SureVector Lacl Repressor Water 23.8 3.2 0.000007501 0.000001 SureVector Lacl Repressor Water 23.8 3.2 92.258 12.3 0.000007501 0.000001 0.000007501
Water 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.000027 0.0000036 0.000007501 0.000001 SureVector Lacl Repressor 23.8 3.2 92.258 12.3 Water 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.000027 0.0000036 0.000007501 0.000001 SureVector T7-HIS6 E. coli Promoter 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000007501 SureVector LacZ 0.0000027 0.0000036 0.000007501 0.0000001
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride SureVector Lacl Repressor Water 23.8 3.2 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride SureVector T7-HIS6 E. coli Promoter Water 23.8 3.2 0.0000036 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501
(hydroxymethyl)propane-1,3-diol hydrochloride 3.2 92.258 12.3 SureVector LacI Repressor 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane-1,3-diol hydrochloride 0.000027 0.0000036 0.000007501 0.000001 SureVector T7-HIS6 E. coli Promoter 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane-1,3-diol hydrochloride 0.0000036 0.000007501 0.000007501 0.000007501 SureVector LacZ SureVector LacZ 0.0000036 0.000007501 0.0000001
Repressor 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000001 SureVector T7-HIS6 E. coli Promoter 23.8 3.2 92.258 12.3 Vater 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 SureVector LacZ 0.000007501 0.000007501 0.0000001
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride SureVector T7-HIS6 E. coli Promoter Water 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501 0.000007501
(hydroxymethyl)propane- 1,3-diol hydrochloride SureVector T7-HIS6 E. coli Promoter Water 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride SureVector LacZ
coli Promoter 92.258 12.3 Vater 23.8 3.2 92.258 12.3 2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000036 0.000007501 0.000001 SureVector LacZ 0.0000036 0.000007501 0.000007501
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000007501 0.000007501
(hydroxymethyl)propane- 1,3-diol hydrochloride SureVector LacZ
Control (N-term)
Water 23.8 3.2 92.258 12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000001
SureVector T7 E. coli Promoter
Water 23.8 3.2 92.258 12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000001
SureVector Tac E. coli Promoter
Water 23.8 3.2 92.258 12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000001
SureVector HIS6 E. coli Expression Tag (N-term)
Water 23.8 3.2 92.258 12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride 0.0000027 0.0000036 0.000007501 0.000007501 0.000001
SureVector Enzyme Mix
Water 23.8 3.2 92.258 12.3
Sorbitan monolaurate, <1 <0.13

Date of issue/Date of revision

SECTION 9: Physical and chemical properties

ethoxylated					
10X SureVector Buffer					
Water	23.8	3.2	92.258	12.3	
Polyoxyethylene octyl phenyl ether	<1	<0.13			
dNTP Mix					
Water	23.8	3.2	92.258	12.3	
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001	
DpnI					
Water	23.8	3.2	92.258	12.3	
Glycerol	0.000075	0.00001	0.0025	0.00033	

Evaporation rate

Relative density

5X SureSolution

0.026 (butyl acetate = 1)

SureVector AmpR Selectable Marker

Not available.

SureVector pUC Origin SureVector XP1 Linker Not available. Not available. Not available.

SureVector Lacl Repressor

SureVector T7-HIS6 E.

Not available.

coli Promoter

SureVector LacZ Control

(N-term)

Not available.

SureVector T7 E. coli

Promoter

Not available.

Promoter

SureVector Tac E. coli

Not available.

Promoter

SureVector HIS6 E. coli

Expression Tag (N-term)

-m)

Not available.

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix

Not available. Not available. Not available. Not available.

Dpnl

5X SureSolution 1.1

SureVector AmpR

Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available.

SureVector Lacl Repressor

__

Not available.

Repressor

SureVector T7-HIS6 E. coli Promoter

Not available.

SureVector LacZ Control

Not available.

(N-term)

SureVector T7 E. coli

Not available.

Promoter

SureVector Tac E. coli

coli Not available.

Promoter

SureVector HIS6 E. coli

Not available.

Expression Tag (N-term) SureVector Enzyme Mix

Not available.

SureVector Enzyme Mix 10X SureVector Buffer

Not available. Not available.

dNTP Mix

: 28/03/2022 Date of previous issue : No

: No previous validation Version : 1

40/56

Date of issue/Date of revision

SECTION 9: Physical and chemical properties

S. SureSolution SureVector AmpR Selectable Marker SureVector PTD Linker SureVector XP1 Linker SureVector XP1 Linker SureVector XP1 Linker SureVector XP1 Linker SureVector XP2 Linker SureVector T7-HIS6 E. coli Promoter SureVector T2 E. coli Promoter SureVector T3 E. coli Promoter SureVector T4 E. coli Promoter SureVector T6 E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Buffer dNTP Mix Dpnl Oxidising properties SX SureSolution SureVector AmpR Selectable Marker SureVector Lac Repressor SureVector T4 E. coli Promoter SureVector Lac Repressor SureVector Lac Repressor SureVector T4 E. coli Promoter SureVector Lac Repressor SureVector T4 E. coli Promoter SureVector Lac Repressor SureVector T6 E. coli Promoter SureVector T7-HIS6 E. coli Promoter SureVector T6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T6 E. coli Promoter SureVector T6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T6 E. coli Promoter SureVect	SECTION 9: Physica	i and chemical pro	perties
Selectable Marker SureVector pUC Origin SureVector XPT Linker SureVector XPT Linker SureVector Lacl Repressor SureVector TX-HIS6 E. coli Promoter SureVector TZ E. coli Promoter SureVector Tac E. coli Promoter SureVector Tac E. coli Promoter SureVector Buffer dNTP Mix Dpnl Not available. Oxidising properties Oxidising properties SureVector AmpR Selectable Marker SureVector Lacl SureVector DLC Origin SureVector Lacl Repressor SureVector TZ E. coli Promoter SureVector DLC Origin SureVector DLC Origin SureVector Tac E. coli Promoter SureVector TAC Iniker SureVector Tac E. coli Promoter SureVector Tac E. coli Promoter SureVector Tac E. coli Promoter SureVector Buffer dNTP Mix DX SureVector Buffer dNT Buix DX SureVector Buffer dNT Buix DX SureVector Tac E. coli Promoter SureVector Buffer dNT Buix DX SureVector Buffer DX DX SureVector Buffer DX DX SureVector Buffer	Vapour density	: 5X SureSolution	2.7 [Air = 1]
SureVector PUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T-HIS6 E. coli Promoter SureVector Tac Z Control (N-term) SureVector Tac E. coli Promoter SureVector Tac E. coli Expression Tag (N-term) SureVector Tac E. coli Expression Tag (N-term) SureVector Buffer dNTP Mix 10X SureVector Buffer dNTP Mix Dpnl Oxidising properties SureVector Act Control (N-term) SureVector DuC Origin SureVector DuC Origin SureVector Lacl Repressor SureVector Tac E. coli Promoter SureVector DuC Origin SureVector Buffer dNTP Mix Dynl Not available. Not applicable.		SureVector AmpR	Not available.
SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T1 S6 E. coli Promoter SureVector T1 E. coli Promoter SureVector T1 S6 E. coli Promoter SureVector T1 S6 E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix Dpnl Oxidising properties SureVector AmpR Selectable Marker SureVector Appl Linker SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T3 G. Coli Expression Tag (N-term) SureVector T6 E. coli Promoter SureVector Buffer dNTP Mix 10X sureVector Buffer dNT available. Not available. Not available. Not available. Not applicable.		Selectable Marker	
SureVector Lacl Repressor SureVector T7-HIS6 E. coil Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T8 E. coli Promoter SureVector T8 E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Burker Ox SureVector AmpR Selectable Marker SureVector AmpR Selectable Marker SureVector T7-HIS6 E. coli Promoter SureVector Lacz Control (N-term) SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T8 E. coli Promoter SureVector T8 E. coli Promoter SureVector T8 E. coli Promoter SureVector Burker SureVector HIS6 E. coli Expression Tag (N-term) SureVector Burker Oxt available. Not applicable.			
Repressor SureVector T7-HIS6 E. coll Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector T3 E. coli Promoter SureVector T4 E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Buffer dNTP Mix Dpnl Oxidising properties 1. 5X SureSolution SureVector AmpR Selectable Marker SureVector P1 Linker SureVector T7-HIS6 E. coli Promoter SureVector T6 E. coli Expressor SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T6 E. coli Expressor SureVector T7 E. coli Promoter SureVector Buffer Not available. Not applicable.			
SureVector T7-HIS6 E. coli Promoter SureVector T2C. coli Not available. (N-term) SureVector T7 E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer Not available. Oxidising properties Oxidising properties SureVector Enzyme Mix 10X SureVector Buffer Not available. SureVector Enzyme Mix 10X SureVector Buffer Not available. SureVector Enzyme Mix 10X SureVector Buffer Not available. SureVector AmpR Not available. SureVector AmpR Selectable Marker SureVector pUC Origin Not available. SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector T6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T8 E. coli Promoter SureVector T9 E. coli Promoter SureVector Buffer dNTP Mix 10X SureVector Buffer dNTP Mix 10X SureVector Buffer dNTP Mix Dpnl Not available. Particle characteristics Median particle size SureVector AmpR Selectable Marker SureVector Lacl Repressor SureVector AmpR Selectable Marker SureVector PUC Origin Not available. Not ava		_	Not available.
SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix Dpnl Not available. Oxidising properties SureVector AmpR Selectable Marker SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Enzyme Mix 10X SureVector Buffer Not available. Not applicable.		SureVector T7-HIS6 E.	Not available.
SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix Dpnl Oxidising properties 1 5 X SureSolution SureVector AmpR Selectable Marker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector T7 E. coli Promoter SureVector T8 E. coli Promoter SureVector T9 E. coli Promoter SureVector Buffer dNT P Mix Dpnl Not available. Not applicable.		SureVector LacZ Control	Not available.
Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix Dpnl Not available. Not availab		SureVector T7 E. coli	Not available.
Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix Dpnl Not available. SureVector AmpR Selectable Marker SureVector PL Corigin SureVector T2P Linker SureVector T3P Linker SureVector T4P Linker SureVector Buffer dNTP Mix Dpnl Not available. No			Not available.
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SureVector Tac E. coli Not applicable. Promoter SureVector HIS6 E. coli Not applicable. Expression Tag (N-term) SureVector Enzyme Mix Not applicable.		SureVector T7 E. coli	Not applicable.
Expression Tag (N-term) SureVector Enzyme Mix Not applicable.		SureVector Tac E. coli	Not applicable.
		Expression Tag (N-term)	
40V D 1 - 1 N N		SureVector Enzyme Mix	Not applicable.

Date of issue/Date of revision: 28/03/2022Date of previous issue: No previous validationVersion: 141/56

Not applicable.

10X SureVector Buffer

SECTION 9: Physical and chemical properties

dNTP Mix Dpnl

Not applicable. Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

: 5X SureSolution

No specific test data related to reactivity available for this product or its ingredients.

SureVector AmpR Selectable Marker SureVector pUC Origin No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

SureVector XP1 Linker No specific test data related to reactivity available for this

product or its ingredients.

SureVector Lacl Repressor

No specific test data related to reactivity available for this product or its ingredients.

SureVector T7-HIS6 E.

No specific test data related to reactivity available for this

coli Promoter SureVector LacZ Control product or its ingredients.

(N-term)

No specific test data related to reactivity available for this product or its ingredients.

SureVector T7 E. coli

No specific test data related to reactivity available for this

Promoter SureVector Tac E. coli product or its ingredients.

Promoter

No specific test data related to reactivity available for this product or its ingredients.

SureVector HIS6 E. coli

No specific test data related to reactivity available for this

Expression Tag (N-term) SureVector Enzyme Mix

product or its ingredients. No specific test data related to reactivity available for this

10X SureVector Buffer

product or its ingredients. No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this

product or its ingredients.

DpnI

dNTP Mix

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability

5X SureSolution SureVector AmpR The product is stable. The product is stable.

Selectable Marker SureVector pUC Origin SureVector XP1 Linker

The product is stable. The product is stable. The product is stable.

SureVector Lacl

Repressor

The product is stable.

SureVector T7-HIS6 E. coli Promoter

The product is stable.

SureVector LacZ Control (N-term)

The product is stable.

SureVector T7 E. coli

The product is stable.

Promoter SureVector Tac E. coli

Promoter

The product is stable.

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix

The product is stable. The product is stable. The product is stable.

10X SureVector Buffer dNTP Mix

The product is stable.

DpnI

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version 42/56

SECTION 10: Stability and reactivity

10.3 Possil	bility of
hazardous	reactions

: 5X SureSolution Under normal conditions of storage and use, hazardous reactions will not occur.

SureVector AmpR Under normal conditions of storage and use, hazardous reactions will not occur.

SureVector pUC Origin Under normal conditions of storage and use, hazardous reactions will not occur.

SureVector XP1 Linker Under normal conditions of storage and use, hazardous

reactions will not occur.

SureVector Lacl Under normal conditions of storage and use, hazardous

Repressor reactions will not occur.

SureVector T7-HIS6 E. Under normal conditions of storage and use, hazardous

coli Promoter reactions will not occur.
SureVector LacZ Control Under normal conditions of storage and use, hazardous

(N-term) reactions will not occur.

SureVector T7 E. coli Under normal conditions of storage and use, hazardous reactions will not occur.

SureVector Tac E. coli Under normal conditions of storage and use, hazardous

Promoter reactions will not occur.

SureVector HIS6 E. coli Under normal conditions of storage and use, hazardous

Expression Tag (N-term) reactions will not occur.

SureVector Enzyme Mix Under normal conditions of storage and use, hazardous

reactions will not occur.

10X SureVector Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

dNTP Mix Under normal conditions of storage and use, hazardous reactions will not occur.

DpnI Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

5X SureSolution No specific data.
SureVector AmpR No specific data.
Selectable Marker
SureVector pUC Origin No specific data.

SureVector puc Origin
SureVector XP1 Linker
SureVector Lacl
Repressor
No specific data.
No specific data.

SureVector T7-HIS6 E. No specific data. coli Promoter

SureVector LacZ Control No specific data. (N-term)

SureVector T7 E. coli No specific data.

Promoter

SureVector Tac E. coli No specific data.

SureVector HIS6 E. coli No specific data. Expression Tag (N-term)

Promoter

SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl

No specific data.

10.5 Incompatible materials

5X SureSolution May react or be incompatible with oxidising materials.
SureVector AmpR May react or be incompatible with oxidising materials.
Selectable Marker

SureVector pUC Origin
SureVector XP1 Linker
SureVector Lacl
May react or be incompatible with oxidising materials.
May react or be incompatible with oxidising materials.
May react or be incompatible with oxidising materials.

Repressor
SureVector T7-HIS6 E. May react or be incompatible with oxidising materials.

coli Promoter
SureVector LacZ Control May react or be incompatible with oxidising materials.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 43/56

SECTION 10: Stability and reactivity

(N-term)
SureVector T7 E. coli
Promoter
SureVector Tac E. coli
Promoter
SureVector HIS6 E. coli
Expression Tag (N-term)
SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

5X SureSolution

SureVector AmpR Selectable Marker SureVector pUC Origin

SureVector XP1 Linker

SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli

Promoter
SureVector HIS6 E. coli

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

Dpnl

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

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5X SureSolution				
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
SureVector Enzyme Mix				
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-
10X SureVector Buffer				
Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 44/56

SureVector E. coli N-terminal Promotor kit, 5 rxn, Part Number G7518B

SECTION 11: Toxicological information

DpnI				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
5X SureSolution					
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	2800	N/A	N/A	N/A	N/A
10X SureVector Buffer 10X SureVector Buffer	180000	N/A	N/A	N/A	N/A
Ammonium sulphate	2840	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A
DpnI					
Sodium chloride	3000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X SureSolution					
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Mild irritant	Rabbit	_	mg 100 mg	_
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Okin Mild invitant	Dabbit		mg	
	Skin - Mild irritant	Rabbit	-	100 mg	-
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
Dpnl					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit	-	mg 10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitiser

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 45/56

SECTION 11: Toxicological information

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: 5X SureSolution

SureVector AmpR

Selectable Marker SureVector pUC Origin

SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix Dpnl 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.

Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation

: 5X SureSolution SureVector AmpR

> Selectable Marker SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix Dpnl

Ingestion : 5X SureSolution SureVector AmpR

> Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E. coli Promoter

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 46/56

SECTION 11: Toxicological information

Skin contact

Eye contact

ological information	
SureVector LacZ Control	No known significant effects or critical hazards.
(N-term)	No los como cionestes con esta con está collega en esta con está collega en esta con
SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
SureVector Tac E. coli	No known significant effects or critical hazards.
Promoter	THO KNOWN SIGNMOUNT CHOOLS OF SHILDER HEZERGS.
SureVector HIS6 E. coli	No known significant effects or critical hazards.
Expression Tag (N-term)	-
SureVector Enzyme Mix	No known significant effects or critical hazards.
10X SureVector Buffer	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
Dpnl	<u> </u>
: 5X SureSolution SureVector AmpR	No known significant effects or critical hazards.
Selectable Marker	No known significant effects or critical hazards.
SureVector pUC Origin	No known significant effects or critical hazards.
SureVector XP1 Linker	No known significant effects or critical hazards.
SureVector Lacl	No known significant effects or critical hazards.
Repressor	
SureVector T7-HIS6 E.	No known significant effects or critical hazards.
coli Promoter SureVector LacZ Control	No known significant affects or critical bazards
(N-term)	No known significant effects or critical hazards.
SureVector T7 E. coli	No known significant effects or critical hazards.
Promoter	
SureVector Tac E. coli	No known significant effects or critical hazards.
Promoter	
SureVector HIS6 E. coli	No known significant effects or critical hazards.
Expression Tag (N-term) SureVector Enzyme Mix	No known significant effects or critical hazards.
10X SureVector Buffer	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
Dpnl	No known significant effects or critical hazards.
: 5X SureSolution	No known significant effects or critical hazards.
SureVector AmpR	No known significant effects or critical hazards.
Selectable Marker	-
SureVector pUC Origin	No known significant effects or critical hazards.
SureVector XP1 Linker	No known significant effects or critical hazards.
SureVector Lacl Repressor	No known significant effects or critical hazards.
SureVector T7-HIS6 E.	No known significant effects or critical hazards.
coli Promoter	The Miletin digitilled it entitled hazarde.
SureVector LacZ Control	No known significant effects or critical hazards.
(N-term)	-
SureVector T7 E. coli	No known significant effects or critical hazards.
Promoter	Nie las en einersterent effente en entre la enemale
SureVector Tac E. coli Promoter	No known significant effects or critical hazards.
SureVector HIS6 E. coli	No known significant effects or critical hazards.
Expression Tag (N-term)	or
SureVector Enzyme Mix	No known significant effects or critical hazards.
10X SureVector Buffer	Causes serious eye irritation.
ANTO Mix	No known significant offects or critical bezords

Symptoms related to the physical, chemical and toxicological characteristics

dNTP Mix

Dpnl

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 47/56

No known significant effects or critical hazards.

No known significant effects or critical hazards.

SECTION 11: Toxicological information

SECTION 11: TOXICO	iogicai imormation	
Inhalation	5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	'
	SureVector pUC Origin	No specific data.
	SureVector XP1 Linker	No specific data.
	SureVector Lacl	No specific data.
	Repressor	·
	SureVector T7-HIS6 E.	No specific data.
	coli Promoter	
	SureVector LacZ Control	No specific data.
	(N-term)	
	SureVector T7 E. coli	No specific data.
	Promoter	
	SureVector Tac E. coli	No specific data.
	Promoter	N
	SureVector HIS6 E. coli	No specific data.
	Expression Tag (N-term)	No apositio data
	SureVector Enzyme Mix 10X SureVector Buffer	No specific data.
	dNTP Mix	No specific data. No specific data.
	Dpnl	No specific data.
	•	•
Ingestion	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	No analifia data
	SureVector pUC Origin SureVector XP1 Linker	No specific data. No specific data.
	SureVector Lacl	No specific data.
	Repressor	No specific data.
	SureVector T7-HIS6 E.	No specific data.
	coli Promoter	no oposino data.
	SureVector LacZ Control	No specific data.
	(N-term)	•
	SureVector T7 E. coli	No specific data.
	Promoter	·
	SureVector Tac E. coli	No specific data.
	Promoter	
	SureVector HIS6 E. coli	No specific data.
	Expression Tag (N-term)	
	SureVector Enzyme Mix	No specific data.
	10X SureVector Buffer	No specific data.
	dNTP Mix	No specific data.
	Dpnl	No specific data.
Skin contact	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	No apositio data
	SureVector pUC Origin SureVector XP1 Linker	No specific data. No specific data.
	SureVector Lacl	No specific data.
	Repressor	No specific data.
	SureVector T7-HIS6 E.	No specific data.
	coli Promoter	no oposino data.
	SureVector LacZ Control	No specific data.
	(N-term)	•
	SureVector T7 E. coli	No specific data.
	Promoter	·
	SureVector Tac E. coli	No specific data.
	Promoter	
	SureVector HIS6 E. coli	No specific data.
	Expression Tag (N-term)	No aposific data
	SureVector Enzyme Mix	No specific data.
	10X SureVector Buffer	No specific data.
	dNTP Mix	No specific data.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 48/56

SECTION 11: Toxicological information

Eye contact

DpnI No specific data. 5X SureSolution No specific data. SureVector AmpR No specific data.

Selectable Marker

SureVector pUC Origin No specific data. SureVector XP1 Linker No specific data. SureVector Lacl No specific data.

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli Expression Tag (N-term)

SureVector Enzyme Mix 10X SureVector Buffer

No specific data.

Adverse symptoms may include the following:

pain or irritation watering

redness

dNTP Mix No specific data. DpnI No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

General

: 5X SureSolution SureVector AmpR Selectable Marker

SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector T7 E. coli

Promoter

SureVector Tac E. coli

Promoter

SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

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

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

No known significant effects or critical hazards.

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Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version 49/56

SECTION 11: Toxicological information

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Ca	rc	ın	О	ae	n	IC	IT۱	ı

: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

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

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

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No known significant effects or critical hazards.

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

Mutagenicity

5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

Reproductive toxicity

SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector T7 E. coli Promoter SureVector Tac E. coli Promoter SureVector HIS6 E. coli Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

5X SureSolution

Date of issue/Date of revision: 28/03/2022Date of previous issue: No previous validationVersion: 1

SECTION 11: Toxicological information

Dpnl

No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5X SureSolution			
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Fresh water	Fish - Pimephales promelas Algae - Ulva lactuca Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 72 hours 21 days
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
priemy, remegan my anemy	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10X SureVector Buffer Ammonium sulphate	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 μg/l Fresh water	Fish - Pimephales promelas	96 hours
DpnI			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 519.6 mg/l Fresh water	Algae - Navicula seminulum Crustaceans - Cypris subglobosa	96 hours 48 hours
	Acute EC50 402.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 10000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water	Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 96 hours 96 hours 3 weeks
	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
5X SureSolution Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 51/56

SureVector E. coli N-terminal Promotor kit, 5 rxn, Part Number G7518B

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5X SureSolution Dimethyl sulfoxide	-	-	Not readily
10X SureVector Buffer Ammonium sulphate Polyoxyethylene octyl phenyl ether	-		Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
5X SureSolution			
Dimethyl sulfoxide	-1.35	3.16	low
SureVector Enzyme Mix			
Poly(oxy-1,2-ethanediyl), . alpha[3.77	78.67	low
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			
10X SureVector Buffer			
Ammonium sulphate	-5.1	-	low
Polyoxyethylene octyl phenyl ether	4.86	-	high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	T	vPvB	vP	vB
5X SureSolution Dimethyl sulfoxide	No	N/A	No	No	No	N/A	No

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

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

Packaging

Methods of disposal

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

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 52/56

SureVector E. coli N-terminal Promotor kit, 5 rxn, Part Number G7518B

SECTION 13: Disposal considerations

Special precautions

: Dispose of material(s) and residues under controlled conditions. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Additional information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	Substance of equivalent concern for environment	Listed	42	7/3/2017
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Listed	42	7/3/2017

Substances of very high concern

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 53/56

SECTION 15: Regulatory information

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	Substance of equivalent concern for environment	Recommended	ED/169/2012	7/3/2017
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Recommended	ED/169/2012	7/3/2017

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

Ingredient name	EC number	CAS number	Restriction
10X SureVector Buffer			
ammonium sulphate	231-984-1	7783-20-2	65

Label

: 5X SureSolution

Not applicable.

SureVector AmpR Selectable

Not applicable.

Marker

SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli

Not applicable. Not applicable. Not applicable.

Not applicable.

Promoter

SureVector LacZ Control (N-Not applicable.

term)

SureVector T7 E. coli

Not applicable.

Promoter

SureVector Tac E. coli

Not applicable.

Promoter

SureVector HIS6 E. coli

Not applicable.

Expression Tag (N-term) SureVector Enzyme Mix 10X SureVector Buffer

Not applicable. Not applicable. Not applicable.

dNTP Mix DpnI

Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) : Listed

- Air

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version: 1 54/56

SureVector E. coli N-terminal Promotor kit, 5 rxn, Part Number G7518B

SECTION 15: Regulatory information

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 : All components are listed or exempted.
 Europe : All components are listed or exempted.
 Japan inventory (CSCL): Not determined.
 Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
10X SureVector Buffer	
Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

Date of issue/Date of revision: 28/03/2022Date of previous issue: No previous validationVersion: 155/56

SECTION 16: Other information

SureVector Enzyme Mix
H319
Causes serious eye irritation.
H400
Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

10X SureVector Buffer

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Dpnl

H319 Causes serious eye irritation.

Full text of classifications [CLP/GHS]

SureVector Enzyme Mix

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

10X SureVector Buffer

Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Chronic 2

Eye Dam. 1

Eye Irrit. 2

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Eye Irrit. 2

Date of issue/ Date of revision

Dpnl

Date of previous issue : No previous validation

: 28/03/2022

Version : 1

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Date of issue/Date of revision : 28/03/2022 Date of previous issue : No previous validation Version : 1 56/56