SAFETY DATA SHEET



SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149

Section 1. Identification

Product identifier : SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149

Part no. (chemical kit) : 5500-0149

Part no. : 2X Priming Buffer 5191-6842

First Strand Master Mix 5191-6843 Second Strand Enzyme Mix 5190-7764 Second Strand Oligo Mix 5190-7765

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

Identified uses : Analytical reagent.

For research use only.

X Priming Buffer1.3 ml (96 reactions)First Strand Master Mix0.816 ml (96 reactions)Second Strand Enzyme Mix2.8 ml (96 reactions)Second Strand Oligo Mix0.6 ml (96 reactions)

Uses advised against: Not for use in diagnostic procedures.

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

First Strand Master Mix

H320 EYE IRRITATION - Category 2B

Second Strand Enzyme Mix

H320 EYE IRRITATION - Category 2B

GHS label elements

Signal word : 2X Priming Buffer No signal word.

First Strand Master Mix Warning
Second Strand Enzyme Mix Warning
Second Strand Oligo Mix No signal word.

Hazard statements : 2X Priming Buffer No known significant effects or critical hazards.

First Strand Master Mix H320 - Causes eye irritation. Second Strand Enzyme Mix H320 - Causes eye irritation.

Second Strand Oligo Mix No known significant effects or critical hazards.

Precautionary statements

Prevention : 2X Priming Buffer Not applicable.
First Strand Master Mix Not applicable.

Second Strand Enzyme Mix Not applicable. Second Strand Oligo Mix Not applicable.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 1/21

Section 2. Hazard identification

: 2X Priming Buffer Response Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously First Strand Master Mix 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. Second Strand Enzyme Mix

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Second Strand Oligo Mix Not applicable. : 2X Priming Buffer Not applicable.

First Strand Master Mix Not applicable. Second Strand Enzyme Mix Not applicable. Not applicable. Second Strand Oligo Mix

: 2X Priming Buffer Not applicable. First Strand Master Mix Not applicable. Second Strand Enzyme Mix Not applicable.

Second Strand Oligo Mix Not applicable. : 2X Priming Buffer None known. First Strand Master Mix None known.

Second Strand Enzyme Mix None known. Second Strand Oligo Mix None known. 2X Priming Buffer None known.

Other hazards which do not . result in classification

Storage

Disposal

elements

Supplemental label

First Strand Master Mix None known. Second Strand Enzyme Mix None known. Second Strand Oligo Mix None known.

Section 3. Composition/information on ingredients

Substance/mixture : 2X Priming Buffer Mixture First Strand Master Mix Mixture Second Strand Enzyme Mix Mixture

Second Strand Oligo Mix Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
2X Priming Buffer			
Potassium chloride	Potassium Chloride	≥1 - ≤5	7447-40-7
First Strand Master Mix			
Glycerol	Glycerol	≥10 - ≤30	56-81-5
Polyoxyethylene octyl phenyl ether	Triton X-100	≤0.1	9002-93-1
Second Strand Enzyme Mix			
Glycerol	Glycerol	≥10 - ≤30	56-81-5
Potassium chloride	Potassium Chloride	≥1 - ≤5	7447-40-7
Polyoxyethylene octyl phenyl ether	Triton X-100	≤0.1	9002-93-1

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

Date of issue/Date of revision : 06/29/2023 : 07/27/2020 Version : 2 2/21 Date of previous issue

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact: 2X Priming 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.

First Strand Master Mix Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,

get medical attention.

Second Strand Enzyme Mix Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,

get medical attention.

Second Strand Oligo Mix Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : 2X Priming Buffer Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

First Strand Master Mix Remove victim to fresh air and keep at rest in a

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

as a collar, tie, belt or waistband.

Second Strand Enzyme Mix Remove victim to fresh air and keep at rest in a

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

as a collar, tie, belt or waistband.

Second Strand Oligo Mix Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 3/21

Section 4. First-aid measures

Ingestion

Skin contact : 2X Priming Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

First Strand Master Mix Flush contaminated skin with plenty of water.

> Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Second Strand Enzyme Mix

Second Strand Oligo Mix

First Strand Master Mix

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

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

: 2X Priming Buffer

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

personnel. Get medical attention if symptoms occur. 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.

Second Strand Enzyme Mix Wash out mouth with water. Remove dentures if any.

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

belt or waistband.

Second Strand Oligo Mix Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

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

No known significant effects or critical hazards.

Version : 2

4/21

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

Date of issue/Date of revision

: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Mix

: 06/29/2023

Causes eye irritation. Second Strand Oligo Mix No known significant effects or critical hazards.

Causes eye irritation.

: 07/27/2020

Date of previous issue

Section 4. First-aid measures

Inhalation : 2X Priming Buffer No known significant effects or critical hazards.

First Strand Master Mix

No known significant effects or critical hazards.

Second Strand Enzyme Mix

No known significant effects or critical hazards.

Second Strand Oligo Mix No known significant effects or critical hazards.

Skin contact: 2X Priming Buffer No known significant effects or critical hazards.

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Ingestion : 2X Priming Buffer No known significant effects or critical hazards.

First Strand Master Mix
Second Strand Enzyme Mix
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Second Strand Oligo Mix No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation

Ingestion

Eye contact: 2X Priming Buffer No specific data.

First Strand Master Mix Adverse symptoms may include the following:

irritation watering redness

Second Strand Enzyme Mix Adverse symptoms may include the following:

irritation watering redness

Second Strand Oligo Mix No specific data.

: 2X Priming Buffer No specific data. First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix No specific data. No specific data.

Skin contact: 2X Priming Buffer No specific data.

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix

2X Priming Buffer

First Strand Master Mix
No specific data.
No specific data.
No specific data.

First Strand Master Mix No specific data.
Second Strand Enzyme Mix No specific data.
Second Strand Oligo Mix No specific data.

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

Notes to physician : 2X Priming Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

First Strand Master Mix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Second Strand Enzyme Mix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Second Strand Oligo Mix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : 2X Priming Buffer No specific treatment.

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix
No specific treatment.
No specific treatment.
No specific treatment.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 5/21

SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149

Section 4. First-aid measures

Protection of first-aiders

: 2X Priming Buffer No action shall be taken involving any personal risk

or without suitable training.

First Strand Master Mix

No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Second Strand Enzyme Mix No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Second Strand Oligo Mix

No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extino				-
	ıuısı	ши	HICG	ıu

Suitable extinguishing media

: 2X Priming Buffer Use an extinguishing agent suitable for the

surrounding fire.

surrounding fire.

Second Strand Enzyme Mix Use an extinguishing agent suitable for the

surrounding fire.

surrounding fire.

Unsuitable extinguishing

media

: 2X Priming Buffer

First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix None known.

None known. None known.

Specific hazards arising from the chemical

: 2X Priming Buffer

In a fire or if heated, a pressure increase will occur

and the container may burst.

First Strand Master Mix In a fire or if heated, a pressure increase will occur

and the container may burst.

Second Strand Enzyme Mix In a fire or if heated, a pressure increase will occur

and the container may burst.

Second Strand Oligo Mix In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products

: 2X Priming Buffer

Decomposition products may include the following

materials: carbon dioxide carbon monoxide

nitrogen oxides

halogenated compounds metal oxide/oxides

First Strand Master Mix Decomposition products may include the following

materials: carbon dioxide carbon monoxide

Second Strand Enzyme Mix Decomposition products may include the following

materials: carbon dioxide carbon monoxide halogenated compounds

metal oxide/oxides

Second Strand Oligo Mix No specific data.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 6/21

Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: 2X Priming Buffer

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

First Strand Master Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Second Strand Enzyme Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Second Strand Oligo Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Special protective equipment for fire-fighters

: 2X Priming Buffer

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

pressure mode.

First Strand Master Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Second Strand 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.

Second Strand Oligo Mix

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 2X Priming Buffer

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

personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

First Strand Master Mix No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mixt.

mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk

Second Strand Enzyme Mix

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

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or

mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

Second Strand Oligo Mix

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 7/21

Section 6. Accidental release measures

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

For emergency responders : 2X Priming Buffer If specialized clothing is required to deal with the

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

First Strand Master Mix

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

Second Strand Enzyme Mix If specialized clothing is required to deal with the

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

Second Strand Oligo Mix

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

Environmental precautions : 2X Priming Buffer Avoid dispersal of spilled material and runoff and

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

soil or air).

First Strand Master Mix Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

Second Strand Enzyme Mix Avoid dispersal of spilled material and runoff and

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

soil or air).

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

soil or air).

Methods and materials for containment and cleaning up

Methods for cleaning up : 2X Priming Buffer Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

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

disposal contractor.

First Strand Master 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.

Second Strand 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

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 8/21

Section 6. Accidental release measures

Second Strand Oligo Mix

disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: 2X Priming Buffer

Put on appropriate personal protective equipment

(see Section 8).

First Strand Master Mix

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

reuse container.

Second Strand Enzyme Mix

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

reuse container.

Second Strand Oligo Mix

Put on appropriate personal protective equipment

(see Section 8).

Advice on general occupational hygiene : 2X Priming Buffer

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

additional information on hygiene measures.

First Strand Master Mix

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

additional information on hygiene measures.

Second Strand Enzyme Mix

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

Second Strand Oligo Mix

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

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 9/21

Section 7. Handling and storage

Conditions for safe storage, : 2X Priming Buffer including any incompatibilities

First Strand Master Mix

Second Strand Enzyme Mix

Second Strand Oligo Mix

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

Store in accordance with local regulations. Store in

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Date of issue/Date of revision : 06/29/2023 : 07/27/2020 Version : 2 10/21 Date of previous issue

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits				
First Strand Master Mix					
Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2022). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist				
Second Strand Enzyme Mix Glycerol	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2022). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist				

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 11/21

Section 8. Exposure controls/personal protection

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

this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : 2X Priming Buffer Liquid.

First Strand Master Mix Liquid.
Second Strand Enzyme Mix Liquid.
Second Strand Oligo Mix Liquid.

Color : 2X Priming Buffer Not available.

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix
Not available.
Not available.

Odor : 2X Priming Buffer Not available.
First Strand Master Mix Not available.

Second Strand Oligo Mix

Not available.

Not available.

Not available.

Odor threshold : 2X Priming Buffer Not available.

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix
Not available.
Not available.

pH : 2X Priming Buffer 8.3

First Strand Master Mix 8.3 Second Strand Enzyme Mix 8.3 Second Strand Oligo Mix 7.5

Melting point/freezing point : 2X Priming Buffer 0°C (32°F)

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix

2X Priming Buffer

Not available.
Not available.
100°C (212°F)

Boiling point, initial boiling

point, and boiling range

First Strand Master Mix
Second Strand Enzyme Mix

First Strand Master Mix
Second Strand Enzyme Mix
Second Strand Oligo Mix
Not available.
Not available.

Flash point :

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 12/21

Section 9. Physical and chemical properties and safety characteristics

		Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method	
First Strand Master Mix							
Glycerol	-	-	-	177	350.6	-	
Second Strand Enzyme Mix							
Glycerol	-	-	-	177	350.6	-	

Evaporation rate

2X Priming Buffer Not available.
 First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix Not available.
 2X Priming Buffer Not applicable.

Flammability

2X Priming Buffer
 First Strand Master Mix
 Second Strand Enzyme Mix
 Second Strand Oligo Mix
 Second Strand Oligo Mix
 Second Strand Oligo Mix
 Second Strand Oligo Mix
 Not applicable.
 Not available.

Lower and upper explosion limit/flammability limit

2X Priming Buffer Not available.
First Strand Master Mix Not available.
Second Strand Enzyme Mix Not available.
Second Strand Oligo Mix Not available.

Vapor pressure

	Vapoi	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
2X Priming Buffer								
water	17.5	2.3	-	92.258	12.3	-		
2-Amino-2- (hydroxymethyl) propane-1,3-diol hydrochloride	0	0	-	0.000007501	0.000001	-		
First Strand Master Mix								
water	17.5	2.3	-	92.258	12.3	-		
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-		
Second Strand Enzyme Mix								
water	17.5	2.3	-	92.258	12.3	-		
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-		
Second Strand Oligo Mix								

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 13/21

Section 9. Physical and chemical properties and safety characteristics

		water 17.5		2.3 -			92.258	3 12.3	-
Relative vapor density	:	2X Priming Buffer		Not availal			•	•	
		First Strand Master Mix Second Strand Enzyme M		Not availal Not availal					
		Second Strand Oligo Mix		Not availal					
Relative density	:	2X Priming Buffer		Not availal					
		First Strand Master Mix Second Strand Enzyme M		Not availal Not availal					
		Second Strand Oligo Mix		Not availal					
Solubility(ies)	:	Media			Re	sult			
		2X Priming Buffer							
		water First Strand Master Mix			Sol	uble			
		water			Sol	uble			
		Second Strand Enzyme	Mix		Cal	ماطييا			
		water Second Strand Oligo Mix	X		301	uble			
		water			Sol	uble			
Partition coefficient: n-	:	2X Priming Buffer		Not applica					
octanol/water		First Strand Master Mix Second Strand Enzyme M		Not applica Not applica					
		Second Strand Oligo Mix		Not applica					
Auto-ignition temperature	:	Ingredient name		°C		°F		Method	
		First Strand Master Mix							
		Glycerol		370		698			
		Second Strand Enzyme	Mix						
		Glycerol		370		698			
Decomposition temperature		2X Priming Buffer		Not availal	hla	030			
Decomposition temperature	•	First Strand Master Mix		Not availal Not availal					
		Second Strand Enzyme M		Not availal					
Viscosity		Second Strand Oligo Mix 2X Priming Buffer		Not availal Not availal					
Viscosity	•	First Strand Master Mix		Not availal Not availal					
		Second Strand Enzyme M		Not availal					
Particle characteristics		Second Strand Oligo Mix		Not availal	ble.				
Median particle size	÷	X Priming Buffer		Not applica	able				
modian partiolo oizo	•	First Strand Master Mix		Not applica	able.				
		Second Strand Enzyme M Second Strand Oligo Mix		Not applica Not applica					
0 - 41 40 0() !!!	<u> </u>			i vot applica	avie.				
Section 10. Stability	ty	and reactivity							
Reactivity		2X Priming Buffer		No specific	c tes	t data i	related t	o reactivit	v available for

Reactivity	: 2X Priming Buffer	No specific test data related to reactivity available for this product or its ingredients.
	First Strand Master Mix	No specific test data related to reactivity available for this product or its ingredients.
		,
	Second Strand Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
	Second Strand Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.
		this product or its ingredients.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 14/21

Section 10. Stability and reactivity

Chemical stability

2X Priming Buffer
 First Strand Master Mix
 Second Strand Enzyme Mix
 Second Strand Oligo Mix

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

Possibility of hazardous reactions

: 2X Priming Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

hazardous reactions will not occur.

hazardous reactions will not occur.

Second Strand Oligo Mix Under normal conditions of storage and use.

hazardous reactions will not occur.

Conditions to avoid

2X Priming Buffer
 First Strand Master Mix
 Second Strand Enzyme Mix
 Second Strand Oligo Mix

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

Incompatible materials

2X Priming Buffer
 First Strand Master Mix
 Second Strand Enzyme Mix
 Second Strand Oligo Mix

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

Hazardous decomposition products

: 2X Priming Buffer

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

produced.

First Strand Master Mix

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

produced

Second Strand Enzyme Mix

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

produced.

Second Strand Oligo Mix

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

produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2X Priming Buffer				
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
First Strand Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Polyoxyethylene octyl phenyl	LD50 Oral	Rat	1800 mg/kg	-
ether				
Second Strand Enzyme				
Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Polyoxyethylene octyl phenyl	LD50 Oral	Rat	1800 mg/kg	-
ether				

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 15/21

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
X Priming Buffer Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
First Strand Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit		24 hours 500 uL	-
Second Strand Enzyme Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: 2X Priming Buffer Not available.

First Strand Master Mix Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Second Strand Enzyme Mix Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Second Strand Oligo Mix Not available.

Potential acute health effects

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 16/21

Section 11. Toxicological information

: 2X Priming Buffer **Eye contact** No known significant effects or critical hazards.

> First Strand Master Mix Causes eye irritation. Second Strand Enzyme Mix Causes eye irritation.

Second Strand Oligo Mix No known significant effects or critical hazards. Inhalation : 2X Priming Buffer No known significant effects or critical hazards.

> First Strand Master Mix No known significant effects or critical hazards. Second Strand Enzyme Mix No known significant effects or critical hazards. Second Strand Oligo Mix No known significant effects or critical hazards.

Skin contact : 2X Priming Buffer No known significant effects or critical hazards.

> First Strand Master Mix No known significant effects or critical hazards. Second Strand Enzyme Mix No known significant effects or critical hazards. Second Strand Oligo Mix No known significant effects or critical hazards.

: 2X Priming Buffer No known significant effects or critical hazards. Ingestion

> First Strand Master Mix No known significant effects or critical hazards. Second Strand Enzyme Mix No known significant effects or critical hazards. Second Strand Oligo Mix No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

: 2X Priming Buffer **Eye contact** No specific data.

First Strand Master Mix Adverse symptoms may include the following:

> irritation watering redness

Adverse symptoms may include the following: Second Strand Enzyme Mix

> irritation watering redness

Second Strand Oligo Mix No specific data.

Inhalation : 2X Priming Buffer No specific data. First Strand Master Mix

No specific data. Second Strand Enzyme Mix No specific data. No specific data. Second Strand Oligo Mix : 2X Priming Buffer No specific data.

Skin contact First Strand Master Mix No specific data. Second Strand Enzyme Mix No specific data.

Second Strand Oligo Mix No specific data. 2X Priming Buffer No specific data. First Strand Master Mix No specific data.

Second Strand Enzyme Mix No specific data. Second Strand Oligo Mix No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Ingestion

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

: 2X Priming Buffer No known significant effects or critical hazards. General

First Strand Master Mix No known significant effects or critical hazards. Second Strand Enzyme Mix No known significant effects or critical hazards. Second Strand Oligo Mix No known significant effects or critical hazards.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 17/21

Section 11. Toxicological information

Carcinogenicity	: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix	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	: 2X Priming Buffer First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix	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.
Reproductive toxicity	: ZX Priming Buffer First Strand Master Mix Second Strand Enzyme Mix Second Strand Oligo Mix	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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
2X Priming Buffer					
2X Priming Buffer	232558.1	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
First Strand Master Mix					
Glycerol	12600	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A
Second Strand Enzyme Mix					
Second Strand Enzyme Mix	192592.6	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2X Priming Buffer			
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - <i>Navicula seminulum</i>	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours
First Strand Master Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	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 - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 0.004 mg/l Fresh water	Fish - Gambusia holbrooki	28 days
Pote of issue/Pote of revision	106/20/2022 Pote of provious issue	107/27/2020 Version	. 2 10/21

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 18/21

Section 12. Ecological information

Second Strand Enzyme Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	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 - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4500 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 0.004 mg/l Fresh water	Fish - Gambusia holbrooki	28 days

Persistence and degradability

Product/ingredient name	Test	Result	Dos	se Inoculum
First Strand Master Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Second Strand Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	Biodegradabil

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2X Priming Buffer Potassium chloride	-	-	Readily
First Strand Master Mix Polyoxyethylene octyl phenyl ether	-	-	Readily
Second Strand Enzyme Mix Potassium chloride Polyoxyethylene octyl phenyl ether	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2X Priming Buffer Potassium chloride	-0.46	-	Low
First Strand Master Mix Glycerol Polyoxyethylene octyl phenyl ether	-1.76 4.86	-	Low High
Second Strand Enzyme Mix Glycerol	-1.76	-	Low

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 19/21

SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149 Section 12. Ecological information Potassium chloride -0.46 Low Polyoxyethylene octyl phenyl 4.86 High ether

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

Disposal methods

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Date of issue/Date of revision : 06/29/2023 : 07/27/2020 Version : 2 20/21 Date of previous issue

SureSelect cDNA Module (Pre PCR), 96 Reactions, Part Number 5500-0149

Section 15. Regulatory information

Inventory list

Canada : Not determined.
United States : Not determined.

Section 16. Other information

History

Date of issue/Date of

revision

: 06/29/2023

Date of previous issue

: 07/27/2020

Version

: 2

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations
IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Procedure used to derive the classification

Classification	Justification
First Strand Master Mix EYE IRRITATION - Category 2B	Calculation method
Second Strand Enzyme Mix EYE IRRITATION - Category 2B	Calculation method

Indicates information that has changed from previously issued version.

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.

Date of issue/Date of revision : 06/29/2023 Date of previous issue : 07/27/2020 Version : 2 21/21