SAFETY DATA SHEET





AccuScript High Fidelity 1st Strand cDNA Synthesis Kit

Section 1. Identification

Product identifier : AccuScript High Fidelity 1st Strand cDNA Synthesis Kit

Part no. (chemical kit) : 200820

Part no. : RNase-Free Water 600164-58

 AccuScript High Fidelity RT
 600089-54

 10X AccuScript RT Buffer
 600089-52

 RNase Block
 200820-56

 100 mM dNTP Mix (25 mM each dNTP)
 200820-55

 Oligo(dT) Primer
 200820-52

 Random Primers
 200420-53

 100 mM DTT
 600089-53

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

Identified uses : Analytical reagent.

Nase-Free Water 1.2 ml

AccuScript High Fidelity RT 0.05 ml (50 reactions)

10X AccuScript RT Buffer 0.1 ml

RNase Block 0.025 ml (1000 U 40 U/µl)

100 mM dNTP Mix (25 mM each dNTP) 0.04 ml

Oligo(dT) Primer 0.05 ml (25 μ g 0.5 μ g/ μ l) Random Primers 0.15 ml (15 μ g 0.1 μ g/ μ l)

100 mM DTT 0.1 ml

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

AccuScript High Fidelity RT

H320 EYE IRRITATION - Category 2B

RNase Block

H320 EYE IRRITATION - Category 2B

GHS label elements

Signal word : Nase-Free Water No signal word.

AccuScript High Fidelity RT Warning

10X AccuScript RT Buffer No signal word.
RNase Block Warning

100 mM dNTP Mix (25 mM No signal word.

each dNTP)

Oligo(dT) Primer No signal word.
Random Primers No signal word.
100 mM DTT No signal word.

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Section 2. Hazard identification

Hazard statements

: RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

No known significant effects or critical hazards.

H320 - Causes eye irritation.

No known significant effects or critical hazards.

H320 - Causes eye irritation.

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.

Precautionary statements

Prevention

RNase-Free Water

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable. Not applicable.

RNase-Free Water Response

AccuScript High Fidelity RT

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.

10X AccuScript RT Buffer

RNase Block

Not applicable.

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.

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

: RNase-Free Water

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Not applicable. Not applicable. Not applicable.

Not applicable. Oligo(dT) Primer Random Primers Not applicable. 100 mM DTT Not applicable. : RNase-Free Water

Disposal

Storage

AccuScript High Fidelity RT

10X AccuScript RT Buffer RNase Block

100 mM dNTP Mix (25 mM each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

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Section 2. Hazard identification

Supplemental label : RNase-Free Water None known. AccuScript High Fidelity RT elements None known. 10X AccuScript RT Buffer None known. RNase Block None known. 100 mM dNTP Mix (25 mM None known. each dNTP) Oligo(dT) Primer None known. Random Primers None known. 100 mM DTT None known. 100 mM dNTP Mix (25 mM Percentage of the mixture consisting of ingredient(s) each dNTP) of unknown hazards to the aquatic environment: 5.7%

Other hazards which do not : result in classification

Nase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
RNase Block

100 mM dNTP Mix (25 mM each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT None known. None known. None known. None known.

None known. None known. None known.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : RNase-Free Water Substance AccuScript High Fidelity RT Mixture 10X AccuScript RT Buffer Mixture RNase Block Mixture 100 mM dNTP Mix (25 mM Mixture each dNTP) Oligo(dT) Primer Mixture Random Primers Mixture 100 mM DTT Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
RNase-Free Water			
water	Water	100	7732-18-5
AccuScript High Fidelity RT			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
10X AccuScript RT Buffer			
Potassium chloride	Potassium Chloride	≥5 - ≤10	7447-40-7
RNase Block			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
100 mM DTT			
(R*,R*)-1,4-Dimercaptobutane- 2,3-diol	Dithiotreitol	≥1 - ≤5	3483-12-3

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.

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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	f necessary first	- aid	magairea
Describtion of	r necessary firsi	ala	measures

Eye contact : RNase-Free Water 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, AccuScript High Fidelity RT

> 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.

10X AccuScript RT 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.

RNase Block 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.

100 mM dNTP Mix (25 mM

each dNTP)

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

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, Oligo(dT) Primer

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

medical attention if irritation occurs.

Random Primers Immediately flush eyes with plenty of water,

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

medical attention if irritation occurs.

100 mM DTT 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 : RNase-Free Water Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

AccuScript High Fidelity RT 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.

10X AccuScript RT 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

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decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

RNase Block 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.

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.

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.

Skin contact Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if 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 thoroughly before reuse.

Flush contaminated skin with plenty of water. 10X AccuScript RT Buffer

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. RNase Block

> 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.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Random Primers

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

100 mM DTT Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer

Random Primers

100 mM DTT

: RNase-Free Water

AccuScript High Fidelity RT

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer

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Ingestion

: RNase-Free Water

AccuScript High Fidelity RT

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.

10X AccuScript RT Buffer

RNase Block

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

100 mM dNTP Mix (25 mM each dNTP)

Oligo(dT) Primer

Random Primers

100 mM DTT

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. 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. 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. 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.

Most important symptoms/effects, acute and delayed

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Potential acute health effects

Inhalation

Skin contact

Ingestion

Eye contact

RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer Random Primers No known significant effects or critical hazards. Causes eye irritation.

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. 100 mM DTT No known significant effects or critical hazards. RNase-Free Water No known significant effects or critical hazards.

No known significant effects or critical hazards. AccuScript High Fidelity RT 10X AccuScript RT Buffer No known significant effects or critical hazards. RNase Block No known significant effects or critical hazards. 100 mM dNTP Mix (25 mM No known significant effects or critical hazards.

each dNTP) Oligo(dT) Primer No known significant effects or critical hazards. Random Primers No known significant effects or critical hazards.

100 mM DTT No known significant effects or critical hazards. RNase-Free Water No known significant effects or critical hazards.

No known significant effects or critical hazards. AccuScript High Fidelity RT No known significant effects or critical hazards. 10X AccuScript RT Buffer No known significant effects or critical hazards. RNase Block 100 mM dNTP Mix (25 mM No known significant effects or critical hazards.

each dNTP) Oligo(dT) Primer No known significant effects or critical hazards. Random Primers No known significant effects or critical hazards. 100 mM DTT No known significant effects or critical hazards.

: RNase-Free Water No known significant effects or critical hazards.

No known significant effects or critical hazards. AccuScript High Fidelity RT 10X AccuScript RT Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. RNase Block

100 mM dNTP Mix (25 mM No known significant effects or critical hazards. each dNTP)

Oligo(dT) Primer No known significant effects or critical hazards. Random Primers No known significant effects or critical hazards. 100 mM DTT No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : RNase-Free Water No specific data.

> AccuScript High Fidelity RT Adverse symptoms may include the following:

> > irritation watering redness

10X AccuScript RT Buffer No specific data.

RNase Block Adverse symptoms may include the following:

> irritation watering redness No specific data.

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM DTT No specific data.

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: RNase-Free Water No specific data. Inhalation AccuScript High Fidelity RT No specific data. 10X AccuScript RT Buffer No specific data. RNase Block No specific data. 100 mM dNTP Mix (25 mM No specific data. each dNTP) Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM DTT No specific data. RNase-Free Water No specific data. Skin contact AccuScript High Fidelity RT No specific data. 10X AccuScript RT Buffer No specific data. No specific data. RNase Block 100 mM dNTP Mix (25 mM No specific data. each dNTP) Oligo(dT) Primer No specific data. Random Primers No specific data. No specific data. 100 mM DTT : Nase-Free Water No specific data. Ingestion AccuScript High Fidelity RT No specific data. 10X AccuScript RT Buffer No specific data. No specific data. RNase Block 100 mM dNTP Mix (25 mM No specific data. each dNTP) Oligo(dT) Primer No specific data. No specific data. Random Primers No specific data. 100 mM DTT

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

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: Nase-Free Water Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

AccuScript High Fidelity RT Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

10X AccuScript RT 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.

RNase Block Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

100 mM dNTP Mix (25 mM

each dNTP)

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical

surveillance for 48 hours.

Oligo(dT) Primer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Random Primers Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

100 mM DTT Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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Specific treatments

: RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

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

No specific treatment.

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

Protection of first-aiders

: RNase-Free Water

No action shall be taken involving any personal risk

or without suitable training.

AccuScript High Fidelity RT

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.

10X AccuScript RT Buffer

No action shall be taken involving any personal risk

or without suitable training.

RNase Block

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.

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer No action shall be taken involving any personal risk

or without suitable training.

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

No action shall be taken involving any personal risk

100 mM DTT

Random Primers

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

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: RNase-Free Water

Use an extinguishing agent suitable for the

surrounding fire.

AccuScript High Fidelity RT

Use an extinguishing agent suitable for the surrounding fire.

10X AccuScript RT Buffer

Use an extinguishing agent suitable for the

surrounding fire.

RNase Block

Use an extinguishing agent suitable for the surrounding fire.

100 mM dNTP Mix (25 mM each dNTP)

Use an extinguishing agent suitable for the

surrounding fire.

Oligo(dT) Primer

Random Primers

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

100 mM DTT

Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing media

: RNase-Free Water

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer Random Primers

None known. None known. None known. None known. None known.

None known. None known.

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Section 5. Fire-fighting measures

100 mM DTT None known. Specific hazards arising : RNase-Free Water In a fire or if heated, a pressure increase will occur from the chemical and the container may burst. In a fire or if heated, a pressure increase will occur AccuScript High Fidelity RT and the container may burst.

10X AccuScript RT Buffer

and the container may burst. In a fire or if heated, a pressure increase will occur RNase Block

and the container may burst. 100 mM dNTP Mix (25 mM In a fire or if heated, a pressure increase will occur

and the container may burst. each dNTP) Oligo(dT) Primer In a fire or if heated, a pressure increase will occur

and the container may burst. Random Primers In a fire or if heated, a pressure increase will occur

and the container may burst.

100 mM DTT In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products : RNase-Free Water No specific data.

AccuScript High Fidelity RT Decomposition products may include the following

materials: carbon dioxide carbon monoxide

10X AccuScript RT Buffer Decomposition products may include the following

> materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

RNase Block Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

materials:

100 mM dNTP Mix (25 mM

each dNTP)

Decomposition products may include the following

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

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

Oligo(dT) Primer No specific data. Random Primers No specific data.

100 mM DTT Decomposition products may include the following

> materials: carbon dioxide carbon monoxide sulfur oxides

Special protective actions for fire-fighters

: RNase-Free Water 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.

AccuScript High Fidelity RT 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 10X AccuScript RT Buffer

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

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Section 5. Fire-fighting measures

without suitable training.

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

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

100 mM dNTP Mix (25 mM

each dNTP)

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

action shall be taken involving any personal risk or

without suitable training.

Oligo(dT) Primer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Random Primers Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

100 mM DTT 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

: RNase-Free Water Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

AccuScript High Fidelity RT Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

10X AccuScript RT Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

RNase Block Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

100 mM dNTP Mix (25 mM

each dNTP)

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

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

pressure mode.

Oligo(dT) Primer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Random Primers Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

100 mM DTT Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: RNase-Free Water

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.

AccuScript High Fidelity RT

10X AccuScript RT Buffer

100 mM dNTP Mix (25 mM

each dNTP)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear

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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

through spilled material. Put on appropriate personal

protective equipment.

RNase Block No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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

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

protective equipment.

Oligo(dT) Primer No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

through spilled material. Put on appropriate personal

protective equipment.

Random Primers No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

100 mM DTT 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.

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Environmental precautions

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Section 6. Accidental release measures

For emergency responders : RNase-Free Water

AccuScript High Fidelity RT

10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM each dNTP)

Oligo(dT) Primer

Random Primers

100 mM DTT

: RNase-Free Water

AccuScript High Fidelity RT

10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

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

Avoid dispersal of spilled material and runoff and Oligo(dT) Primer contact with soil, waterways, drains and sewers.

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 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

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 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 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 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

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 spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

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).

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).

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).

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). Avoid dispersal of spilled material and runoff and

soil or air).

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Section 6. Accidental release measures

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

soil or air).

Random Primers Avoid dispersal of spilled material and runoff and

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

soil or air).

100 mM DTT 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).

Methods and materials for containment and cleaning up

Methods for cleaning up : Nase-Free Water 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.

AccuScript High Fidelity RT 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.

10X AccuScript RT 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.

RNase Block Stop leak if without risk. Move containers from spill

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

disposal contractor.

100 mM dNTP Mix (25 mM

each dNTP)

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

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

disposal contractor.

Oligo(dT) Primer Stop leak if without risk. Move containers from spill

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

disposal contractor.

Random Primers Stop leak if without risk. Move containers from spill

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

disposal contractor.

100 mM DTT Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble.

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Section 6. Accidental release measures

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: RNase-Free Water

Put on appropriate personal protective equipment

(see Section 8).

AccuScript High Fidelity RT

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.

10X AccuScript RT Buffer

Put on appropriate personal protective equipment

(see Section 8).

RNase Block

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.

100 mM dNTP Mix (25 mM

each dNTP)
Oligo(dT) Primer

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

(see Section 8).

Random Primers

Put on appropriate personal protective equipment

(see Section 8).

100 mM DTT

Put on appropriate personal protective equipment

(see Section 8).

Advice on general occupational hygiene

: Nase-Free Water

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

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.

AccuScript High Fidelity RT

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.

10X AccuScript RT 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.

RNase Block Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

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Section 7. Handling and storage

100 mM dNTP Mix (25 mM

each dNTP)

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

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a

additional information on hygiene measures.

Random Primers

Oligo(dT) Primer

100 mM DTT

Conditions for safe storage, : Nase-Free Water including any incompatibilities

AccuScript High Fidelity RT

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

10X AccuScript RT Buffer

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Section 7. Handling and storage

RNase Block

each dNTP)

i

Oligo(dT) Primer

100 mM dNTP Mix (25 mM

Random Primers

100 mM DTT

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 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

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Section 7. Handling and storage

incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
CcuScript High Fidelity RT	
Glycerol	CA Alberta Provincial (Canada, 3/2023). OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 9/2023). TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 4/2021). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 8/2023). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist
RNase Block Glycerol	CA Alberta Provincial (Canada, 3/2023). OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 9/2023). TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 4/2021). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 8/2023). 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.

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Section 8. Exposure controls/personal protection

Eye/face protection

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

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

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

Other skin protection

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

Respiratory protection

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

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	:	RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 mM each dNTP) Oligo(dT) Primer Random Primers 100 mM DTT	Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid. Liquid.
Color	:	RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 mM each dNTP) Oligo(dT) Primer	Colorless. Not available. Not available. Not available. Not available. Not available.
		Random Primers 100 mM DTT	Not available. Not available.
Odor	:	RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block	Odorless. Not available. Not available. Not available.

each dNTP) Oligo(dT) Primer

100 mM DTT

Random Primers

100 mM dNTP Mix (25 mM

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Not available.

Not available.

Not available.

Not available.

Odor threshold : RNase-Free Water Not available. AccuScript High Fidelity RT Not available. 10X AccuScript RT Buffer Not available. RNase Block Not available. 100 mM dNTP Mix (25 mM Not available. each dNTP) Oligo(dT) Primer Not available. Random Primers Not available. 100 mM DTT Not available.

: Nase-Free Water 7
AccuScript High Fidelity RT 8
10X AccuScript RT Buffer 8.3

RNase Block 7.6 100 mM dNTP Mix (25 mM 7.5 each dNTP)

Oligo(dT) Primer 7.5 Random Primers 7.5

100 mM DTT Not available.

Melting point/freezing point : ₹Nase-Free Water 0°C (32°F)

AccuScript High Fidelity RT

10X AccuScript RT Buffer
RNase Block

Not available.
Not available.

100 mM dNTP Mix (25 mM Not available.

 each dNTP)

 Oligo(dT) Primer
 0°C (32°F)

 Random Primers
 0°C (32°F)

 100 mM DTT
 0°C (32°F)

Boiling point, initial boiling point, and boiling range

: RNase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
Not available.

10X AccuScript RT Buffer Not available. RNase Block Not available. 100 mM dNTP Mix (25 mM Not available.

each dNTP)
Oligo(dT) Primer
Random Primers
100°C (212°F)
100°C (212°F)

Random Primers 100°C (212°F) 100 mM DTT 100°C (212°F)

Flash point

pН

	Closed cup		Open cup			
Ingredient name	°C	°F	Method	°C °F Method		Method
AccuScript High Fidelity RT						
Glycerol	-	-	-	177	350.6	-
RNase Block						
Glycerol	-	-	-	177	350.6	-
100 mM DTT						
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230	-	-	-	-

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Evapor	ation rate
--------	------------

Flammability

: RNase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
RNase Block
100 mM dNTP Mix (25 mM
Not available.
Not available.
Not available.

each dNTP)
Oligo(dT) Primer
Random Primers
Not available.

100 mM DTT Not available.
Not applicable.
AccuScript High Fidelity RT Not applicable.
10X AccuScript RT Buffer Not applicable.

RNase Block Not applicable.

100 mM dNTP Mix (25 mM Not applicable.

Not applicable.

each dNTP)
Oligo(dT) Primer
Random Primers
Not applicable.
Not applicable.
Not applicable.

Lower and upper explosion limit/flammability limit:

: RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block Not available. Not available. Not available. Not available. Not available. Not available. Not available.

each dNTP)
Oligo(dT) Primer
Random Primers
Not available.
100 mM DTT
Not available.

Vapor pressure : RNa

: Nase-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

	Vapor Pressure at 20°C			Vapor pressure at 50°0		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
AccuScript High Fidelity RT						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
10X AccuScript RT Buffer						
water	17.5	2.3	-	92.258	12.3	-
RNase Block						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
100 mM dNTP Mix (25 mM each dNTP)						

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water	17.5	2.3	-	92.258	12.3	-
Oligo(dT) Primer						
water	17.5	2.3	-	92.258	12.3	-
Random Primers						
water	17.5	2.3	-	92.258	12.3	-
100 mM DTT						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density

: RNase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
RNase Block
100 mM dNTP Mix (25 mM
each dNTP)

0.62 [Air = 1]
Not available.
Not available.

Oligo(dT) Primer Not available.
Random Primers Not available.
100 mM DTT Not available.

Relative density

: Nase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
RNase Block
100 mM dNTP Mix (25 mM
each dNTP)

1 Not available.
Not available.

Oligo(dT) Primer
Random Primers
Not available.
Not available.
Not available.
Not available.

Solubility(ies)

:	Media	Result
	RNase-Free Water	
	water	Soluble
	AccuScript High Fidelity RT	
	water	Soluble
	10X AccuScript RT Buffer	
	water	Soluble
	RNase Block	
	water	Soluble
	100 mM dNTP Mix (25 mM each dNTP)	
	1	Soluble
	Oligo(dT) Primer	
	11 -11 -11	Soluble
	Random Primers	
	11 -11 -11	Soluble
	100 mM DTT	
	water	Soluble

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Partition coefficient: n-octanol/water

: RNase-Free Water

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT -1.38

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.
Not applicable.
Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
AccuScript High Fidelity RT			
Glycerol	370	698	-
RNase Block			
Glycerol	370	698	-

Decomposition temperature

RNase-Free Water

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block 100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer
Random Primers
100 mM DTT

RNase-Free Water

RNase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
RNase Block
100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT Not available.

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

Not available. Not available. Not available.

Water Not available. gh Fidelity RT Not available. pt RT Buffer Not available. Not available.

Not available.

Not available. Not available. Not available.

Particle characteristics Median particle size

: **F**f

: RNase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer

RNase Block 100 mM dNTP Mix (

100 mM dNTP Mix (25 mM each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Section 10. Stability and reactivity

Reactivity

Viscosity

: RNase-Free Water

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

AccuScript High Fidelity RT

No specific test data related to reactivity available for

this product or its ingredients.

10X AccuScript RT Buffer

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

RNase Block

No specific test data related to reactivity available for

this product or its ingredients.

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Section 10. Stability and reactivity

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer 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.

Random Primers No specific test data related to reactivity available for

this product or its ingredients.

100 mM DTT No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability

: RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

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

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

Possibility of hazardous reactions

: RNase-Free Water

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

AccuScript High Fidelity RT

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

10X AccuScript RT Buffer

Under normal conditions of storage and use,

hazardous reactions will not occur.

RNase Block

Under normal conditions of storage and use,

hazardous reactions will not occur.

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer

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

Under normal conditions of storage and use,

Random Primers

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

hazardous reactions will not occur.

100 mM DTT

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

Conditions to avoid

: RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer Random Primers 100 mM DTT

Random Primers

100 mM DTT

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

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

Incompatible materials

: RNase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block 100 mM dNTP Mix (25 mM each dNTP) Oligo(dT) Primer

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. May react or be incompatible with oxidizing materials.

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Section 10. Stability and reactivity

Hazardous decomposition products

: RNase-Free Water Under no

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

produced.

hazardous decomposition products should not be

produced.

hazardous decomposition products should not be

produced.

RNase Block Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

100 mM dNTP Mix (25 mM

each dNTP)

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

produced.

Oligo(dT) Primer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Random Primers Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

100 mM DTT 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
AccuScript High Fidelity	L DEO Orol	Det	12600 ma/kg	
Glycerol 10X AccuScript RT Buffer	LD50 Oral	Rat	12600 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AccuScript High Fidelity RT					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
10X AccuScript RT Buffer Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
RNase Block Glycerol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
,	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-

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Section 11. Toxicological information

Sensitization

Not available.

Conclusion/Summary

Skin : 100 Mm DTT: May cause skin sensitization.

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)

Name	3 3 3	Route of exposure	Target organs
100 mM DTT (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: RNase-Free Water Not available.

AccuScript High Fidelity RT Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

10X AccuScript RT Buffer Not available.

RNase Block Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Not available.

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Not available. Random Primers Not available.

100 mM DTT Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Potential acute health effects

Eye contact RNase-Free Water

AccuScript High Fidelity RT

10X AccuScript RT Buffer

RNase Block

100 mM DTT

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer Random Primers No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

Causes eye irritation.

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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Ingestion

Section 11. Toxicological information

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

: RNase-Free Water

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer No known significant effects or critical hazards. Random Primers No known significant effects or critical hazards. 100 mM DTT No known significant effects or critical hazards.

Skin contact : RNase-Free Water

> AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

: RNase-Free Water

AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP) Oligo(dT) Primer Random Primers

100 mM DTT

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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : RNase-Free Water No specific data.

> AccuScript High Fidelity RT Adverse symptoms may include the following:

> > irritation watering redness

10X AccuScript RT Buffer No specific data.

RNase Block Adverse symptoms may include the following:

irritation watering redness

No specific data.

No specific data. No specific data.

No specific data.

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100 mM dNTP Mix (25 mM No specific data.

each dNTP)

Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM DTT No specific data. No specific data.

Inhalation : RNase-Free Water

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AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

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Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM DTT No specific data.

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Skin contact : RNase-Free Water

> AccuScript High Fidelity RT No specific data. 10X AccuScript RT Buffer No specific data. RNase Block No specific data.

No specific data.

No specific data.

No specific data.

100 mM dNTP Mix (25 mM No specific data.

each dNTP) Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM DTT No specific data. : Nase-Free Water No specific data. AccuScript High Fidelity RT No specific data.

10X AccuScript RT Buffer No specific data.

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

No specific data. Oligo(dT) Primer Random Primers No specific data. No specific data. 100 mM DTT

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

Short term exposure

Potential immediate

effects

Ingestion

Not available.

: Not available. Potential delayed effects

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : RNase-Free Water No known significant effects or critical hazards.

> AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers

100 mM DTT

Carcinogenicity RNase-Free Water

> AccuScript High Fidelity RT 10X AccuScript RT Buffer

RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

: RNase-Free Water Mutagenicity

AccuScript High Fidelity RT 10X AccuScript RT Buffer RNase Block

100 mM dNTP Mix (25 mM

each dNTP)

Oligo(dT) Primer Random Primers 100 mM DTT

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.

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Section 11. Toxicological information

Reproductive toxicity

: RNase-Free Water
AccuScript High Fidelity RT
10X AccuScript RT Buffer
RNase Block
100 mM dNTP Mix (25 mM
each dNTP)
Oligo(dT) Primer
Random Primers
100 mM DTT

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.

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)
AccuScript High Fidelity RT					
Glycerol	12600	N/A	N/A	N/A	N/A
10X AccuScript RT Buffer					
10X AccuScript RT Buffer	46428.6	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
RNase Block					
Glycerol	12600	N/A	N/A	N/A	N/A
100 mM DTT					
100 mM DTT	33333.3	N/A	N/A	N/A	N/A
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	500	N/A	N/A	N/A	N/A

Other information : 100 mM DTT

Adverse symptoms may include the following: May cause sensitization by skin contact.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
AccuScript High Fidelity			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10X AccuScript RT 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
RNase Block Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
100 mM DTT (R*,R*)	Acute LC50 27000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

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CcuScript High Fidelity 1st Strand cDNA Synthesis Kit				
Section 12. Ecolog	gical information			
-1,4-Dimercaptobutane-				

Persistence and degradability

2,3-diol

Product/ingredient name	Test	Result		Dose	Inoculum
AccuScript High Fidelity RT					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
RNase Block					
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
RNase-Free Water water	-		-		Readily
10X AccuScript RT Buffer Potassium chloride	-		-		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
RNase-Free Water water	-1.38	-	Low
AccuScript High Fidelity RT Glycerol	-1.76	-	Low
10X AccuScript RT Buffer Potassium chloride	-0.46	-	Low
RNase Block Glycerol	-1.76	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

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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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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.

Inventory list

Canada Not determined.

United States : All components are active or exempted.

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Section 16. Other information

History

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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
AccuScript High Fidelity RT EYE IRRITATION - Category 2B	Calculation method
RNase Block EYE IRRITATION - Category 2B	Calculation method

[✓] Indicates information that has changed from previously issued version.

Notice to reader

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