

SAFETY DATA SHEET



AccuScript PfuUltra II RT-PCR Kit, Part Number 600184

Section 1. Identification

Product identifier	: AccuScript PfuUltra II RT-PCR Kit, Part Number 600184
Part No. (Chemical Kit)	: 600184
Part No.	: RNase-Free Water 600164-58
	AccuScript High Fidelity RT 600184-52
	10X AccuScript RT Reaction Buffer 600184-55
	PfuUltra II HS DNA Polymerase 600184-51
	10X PCR Reaction Buffer 600184-53
	40 mM dNTP Mix (10 mM each dNTP) 600166-55
	Oligo (dT) Primer 600166-54
	Random Primers 600166-56
	100 mM DTT 600184-54

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

Analytical reagent.

RNase-Free Water	1.2 ml
AccuScript High Fidelity RT	0.025 ml
10X AccuScript RT Reaction Buffer	0.05 ml
PfuUltra II HS DNA Polymerase	0.05 ml
10X PCR Reaction Buffer	1 ml
40 mM dNTP Mix (10 mM each dNTP)	0.1 ml
Oligo (dT) Primer	0.03 ml (3 µg 100 ng/µl)
Random Primers	0.03 ml (3 µg 100 ng/µl)
100 mM DTT	0.05 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: (61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

10X AccuScript RT Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 7.9%
10X PCR Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.8%
40 mM dNTP Mix (10 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5.7%
10X AccuScript RT Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%
10X PCR Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.8%
40 mM dNTP Mix (10 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.7%

GHS label elements

Section 2. Hazard(s) identification

Signal word	:	RNAse-Free Water	No signal word.
		AccuScript High Fidelity RT	No signal word.
		10X AccuScript RT Reaction Buffer	No signal word.
		PfuUltra II HS DNA Polymerase	No signal word.
		10X PCR Reaction Buffer	No signal word.
		40 mM dNTP Mix (10 mM each dNTP)	No signal word.
		Oligo (dT) Primer	No signal word.
		Random Primers	No signal word.
		100 mM DTT	No signal word.
	Hazard statements	:	RNAse-Free Water
		AccuScript High Fidelity RT	No known significant effects or critical hazards.
		10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
		10X PCR Reaction Buffer	No known significant effects or critical hazards.
		40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
		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.
<u>Precautionary statements</u>			
Prevention	:	RNAse-Free Water	Not applicable.
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Reaction Buffer	Not applicable.
		PfuUltra II HS DNA Polymerase	Not applicable.
		10X PCR Reaction Buffer	Not applicable.
		40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
		Oligo (dT) Primer	Not applicable.
		Random Primers	Not applicable.
		100 mM DTT	Not applicable.
	Response	:	RNAse-Free Water
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Reaction Buffer	Not applicable.
		PfuUltra II HS DNA Polymerase	Not applicable.
		10X PCR Reaction Buffer	Not applicable.
		40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
		Oligo (dT) Primer	Not applicable.
		Random Primers	Not applicable.
		100 mM DTT	Not applicable.
Storage		:	RNAse-Free Water
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Reaction Buffer	Not applicable.
		PfuUltra II HS DNA Polymerase	Not applicable.
		10X PCR Reaction Buffer	Not applicable.
		40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
		Oligo (dT) Primer	Not applicable.
		Random Primers	Not applicable.
		100 mM DTT	Not applicable.

Section 2. Hazard(s) identification

Disposal	:	<input checked="" type="checkbox"/> RNase-Free Water	Not applicable.
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Reaction Buffer	Not applicable.
		PfuUltra II HS DNA Polymerase	Not applicable.
		10X PCR Reaction Buffer	Not applicable.
		40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
		Oligo (dT) Primer	Not applicable.
		Random Primers	Not applicable.
		100 mM DTT	Not applicable.
		Supplemental label elements	:
AccuScript High Fidelity RT	Not applicable.		
10X AccuScript RT Reaction Buffer	Not applicable.		
PfuUltra II HS DNA Polymerase	Not applicable.		
10X PCR Reaction Buffer	Not applicable.		
40 mM dNTP Mix (10 mM each dNTP)	Not applicable.		
Oligo (dT) Primer	Not applicable.		
Random Primers	Not applicable.		
100 mM DTT	Not applicable.		
Other hazards which do not result in classification	:		
		AccuScript High Fidelity RT	None known.
		10X AccuScript RT Reaction Buffer	None known.
		PfuUltra II HS DNA Polymerase	None known.
		10X PCR Reaction Buffer	None known.
		40 mM dNTP Mix (10 mM each dNTP)	None known.
		Oligo (dT) Primer	None known.
		Random Primers	None known.
		100 mM DTT	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	<input checked="" type="checkbox"/> RNase-Free Water	Substance
		AccuScript High Fidelity RT	Mixture
		10X AccuScript RT Reaction Buffer	Mixture
		PfuUltra II HS DNA Polymerase	Mixture
		10X PCR Reaction Buffer	Mixture
		40 mM dNTP Mix (10 mM each dNTP)	Mixture
		Oligo (dT) Primer	Mixture
		Random Primers	Mixture
		100 mM DTT	Mixture

CAS number/other identifiers

Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
RNase-Free Water Water	100	7732-18-5
AccuScript High Fidelity RT Glycerol	≥30 - ≤60	56-81-5
PfuUltra II HS DNA Polymerase Glycerol	≥30 - ≤60	56-81-5

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

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

Section 4. First aid measures

Description of necessary first aid 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.
	AccuScript High Fidelity RT	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.
	10X AccuScript RT Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	PfuUltra II HS DNA Polymerase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	10X PCR Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	40 mM dNTP Mix (10 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.
	Oligo (dT) Primer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Random Primers	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	100 mM 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. Get medical attention if symptoms occur.
	10X AccuScript RT Reaction Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

Section 4. First aid measures

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.

PfuUltra II HS DNA
Polymerase

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

10X PCR Reaction Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

40 mM dNTP Mix (10 mM
each dNTP)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Oligo (dT) Primer

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

Random Primers

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

100 mM DTT

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

Skin contact

: Rinse-Free Water

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

AccuScript High Fidelity RT

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

10X AccuScript RT Reaction
Buffer

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

PfuUltra II HS DNA
Polymerase

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

10X PCR Reaction Buffer

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

40 mM dNTP Mix (10 mM
each dNTP)

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

Oligo (dT) Primer

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

Random Primers

Flush contaminated skin with plenty of water. 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.

Ingestion

: Rinse-Free Water

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

AccuScript High Fidelity RT

Wash out mouth with water. Remove victim to fresh

Section 4. First aid measures

	air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
10X AccuScript RT Reaction Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
PfuUltra II HS DNA Polymerase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
10X PCR Reaction Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
40 mM dNTP Mix (10 mM each dNTP)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Oligo (dT) Primer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Random Primers	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
100 mM DTT	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

[Most important symptoms/effects, acute and delayed](#)

[Potential acute health effects](#)

Section 4. First aid measures

Eye contact	:	<input checked="" type="checkbox"/> Nose-Free Water	No known significant effects or critical hazards.
		AccuScript High Fidelity RT	No known significant effects or critical hazards.
		10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
		10X PCR Reaction Buffer	No known significant effects or critical hazards.
		40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
		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.
		Inhalation	:
AccuScript High Fidelity RT	No known significant effects or critical hazards.		
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.		
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.		
10X PCR Reaction Buffer	No known significant effects or critical hazards.		
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.		
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	:		
		AccuScript High Fidelity RT	No known significant effects or critical hazards.
		10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
		PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
		10X PCR Reaction Buffer	No known significant effects or critical hazards.
		40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
		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.
		Ingestion	:
AccuScript High Fidelity RT	No known significant effects or critical hazards.		
10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.		
PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.		
10X PCR Reaction Buffer	No known significant effects or critical hazards.		
40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.		
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	:	<input checked="" type="checkbox"/> Nose-Free Water	No specific data.
		AccuScript High Fidelity RT	No specific data.
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	No specific data.
		10X PCR Reaction Buffer	No specific data.
		40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.

Section 4. First aid measures

Inhalation	:	☑Nase-Free Water	No specific data.
		AccuScript High Fidelity RT	No specific data.
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	No specific data.
		10X PCR Reaction Buffer	No specific data.
		40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.
	Skin contact	:	☑Nase-Free Water
		AccuScript High Fidelity RT	No specific data.
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	No specific data.
		10X PCR Reaction Buffer	No specific data.
		40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.
Ingestion		:	☑Nase-Free Water
		AccuScript High Fidelity RT	No specific data.
		10X AccuScript RT Reaction Buffer	No specific data.
		PfuUltra II HS DNA Polymerase	No specific data.
		10X PCR Reaction Buffer	No specific data.
		40 mM dNTP Mix (10 mM each dNTP)	No specific data.
		Oligo (dT) Primer	No specific data.
		Random Primers	No specific data.
		100 mM DTT	No specific data.

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

Notes to physician	:	☑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 Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		PfuUltra II HS DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10X PCR Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		40 mM dNTP Mix (10 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.

Section 4. First aid measures

	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.
Specific treatments	: RNase-Free Water	No specific treatment.
	AccuScript High Fidelity RT	No specific treatment.
	10X AccuScript RT Reaction Buffer	No specific treatment.
	PfuUltra II HS DNA Polymerase	No specific treatment.
	10X PCR Reaction Buffer	No specific treatment.
	40 mM dNTP Mix (10 mM each dNTP)	No specific treatment.
	Oligo (dT) Primer	No specific treatment.
	Random Primers	No specific treatment.
	100 mM DTT	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.
	10X AccuScript RT Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
	PfuUltra II HS DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
	10X PCR Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
	40 mM dNTP Mix (10 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training.
	Oligo (dT) Primer	No action shall be taken involving any personal risk or without suitable training.
	Random Primers	No action shall be taken involving any personal risk or without suitable training.
	100 mM DTT	No action shall be taken involving any personal risk or without suitable training.




See toxicological information (Section 11)

Section 5. Firefighting 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 Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	PfuUltra II HS DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	10X PCR Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	40 mM dNTP Mix (10 mM each dNTP)	Use an extinguishing agent suitable for the surrounding fire.
	Oligo (dT) Primer	Use an extinguishing agent suitable for the surrounding fire.
	Random Primers	Use an extinguishing agent suitable for the surrounding fire.
	100 mM DTT	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Firefighting measures

Unsuitable extinguishing media	:  RNase-Free Water	AccuScript High Fidelity RT	None known.
		10X AccuScript RT Reaction Buffer	None known.
		PfuUltra II HS DNA Polymerase	None known.
		10X PCR Reaction Buffer	None known.
		40 mM dNTP Mix (10 mM each dNTP)	None known.
		Oligo (dT) Primer	None known.
		Random Primers	None known.
		100 mM DTT	None known.
Specific hazards arising from the chemical	:  RNase-Free Water	AccuScript High Fidelity RT	In a fire or if heated, a pressure increase will occur and the container may burst.
		10X AccuScript RT Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		PfuUltra II HS DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
		10X PCR Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
		40 mM dNTP Mix (10 mM each dNTP)	In a fire or if heated, a pressure increase will occur and the container may burst.
		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	AccuScript High Fidelity RT	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
		10X AccuScript RT Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
		PfuUltra II HS DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
		10X PCR Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
		40 mM dNTP Mix (10 mM each dNTP)	Decomposition products may include the following materials: 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

Section 5. Firefighting measures

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.

10X AccuScript RT Reaction Buffer

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

PfuUltra II HS DNA Polymerase

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

10X PCR Reaction Buffer

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

40 mM dNTP Mix (10 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 Reaction Buffer

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

PfuUltra II HS DNA Polymerase

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

10X PCR Reaction Buffer

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

40 mM dNTP Mix (10 mM each dNTP)

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

Section 5. Firefighting measures



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

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 spilt material. Put on appropriate personal protective equipment.
	AccuScript High Fidelity RT	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	10X AccuScript RT Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	PfuUltra II HS DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	10X PCR Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	40 mM dNTP Mix (10 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	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 spilt 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

Section 6. Accidental release measures

		personnel from entering. Do not touch or walk through spilt 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	 Nase-Free Water	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	AccuScript High Fidelity RT	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10X AccuScript RT Reaction Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	PfuUltra II HS DNA Polymerase	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10X PCR Reaction Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	40 mM dNTP Mix (10 mM each dNTP)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Oligo (dT) Primer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Random Primers	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	100 mM DTT	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	 Nase-Free Water	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	AccuScript High Fidelity RT	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	10X AccuScript RT Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	PfuUltra II HS DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 6. Accidental release measures

	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X PCR Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
40 mM dNTP Mix (10 mM each dNTP)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Oligo (dT) Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Random Primers	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
100 mM DTT	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material 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 Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
PfuUltra II HS DNA Polymerase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10X PCR Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
40 mM dNTP Mix (10 mM each dNTP)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.


Section 6. Accidental release measures

	Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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. 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).
10X AccuScript RT Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
PfuUltra II HS DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
10X PCR Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
40 mM dNTP Mix (10 mM each dNTP)	Put on appropriate personal protective equipment (see Section 8).
Oligo (dT) Primer	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

:  RNase-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 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 Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment

Section 7. Handling and storage

PfuUltra II HS DNA Polymerase	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.
10X PCR Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
40 mM dNTP Mix (10 mM each dNTP)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Oligo (dT) Primer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Random Primers	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
100 mM DTT	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.

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

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

AccuScript High Fidelity RT

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

Section 7. Handling and storage

10X AccuScript RT Reaction Buffer	containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
PfuUltra II HS DNA Polymerase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
10X PCR Reaction Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
40 mM dNTP Mix (10 mM each dNTP)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Oligo (dT) Primer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Random Primers	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
100 mM DTT	Store in accordance with local regulations. Store in

Section 7. Handling and storage

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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
AccuScript High Fidelity RT Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
PfuUltra II HS DNA Polymerase Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.

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

Individual protection measures

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

Section 9. Physical and chemical properties






Appearance

Physical state	:	RNAse-Free Water	Liquid.
		AccuScript High Fidelity RT	Liquid.
		10X AccuScript RT Reaction	Liquid.
		Buffer	
		PfuUltra II HS DNA	Liquid.
		Polymerase	
		10X PCR Reaction Buffer	Liquid.
		40 mM dNTP Mix (10 mM	Liquid.
		each dNTP)	
		Oligo (dT) Primer	Liquid.
		Random Primers	Liquid.
	100 mM DTT	Liquid.	
Colour	:	RNAse-Free Water	Colourless.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction	Not available.
		Buffer	
		PfuUltra II HS DNA	Not available.
		Polymerase	
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM	Not available.
		each dNTP)	
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
	100 mM DTT	Not available.	
Odour	:	RNAse-Free Water	Odourless.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction	Not available.
		Buffer	
		PfuUltra II HS DNA	Not available.
		Polymerase	
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM	Not available.
		each dNTP)	
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
	100 mM DTT	Not available.	
Odour threshold	:	RNAse-Free Water	Not available.
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction	Not available.
		Buffer	
		PfuUltra II HS DNA	Not available.
		Polymerase	
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM	Not available.
		each dNTP)	
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
	100 mM DTT	Not available.	
pH	:	RNAse-Free Water	7
		AccuScript High Fidelity RT	8
		10X AccuScript RT Reaction	8.3
		Buffer	
		PfuUltra II HS DNA	8.2
		Polymerase	
		10X PCR Reaction Buffer	10
		40 mM dNTP Mix (10 mM	7.5
		each dNTP)	
		Oligo (dT) Primer	7.5
		Random Primers	7.5
	100 mM DTT	Not available.	

Section 9. Physical and chemical properties

Melting point	:	<input checked="" type="checkbox"/> Nase-Free Water	0°C (32°F)
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction Buffer	Not available.
		PfuUltra II HS DNA Polymerase	Not available.
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM each dNTP)	Not available.
		Oligo (dT) Primer	0°C (32°F)
		Random Primers	0°C (32°F)
		100 mM DTT	0°C (32°F)
		Boiling point	:
AccuScript High Fidelity RT	Not available.		
10X AccuScript RT Reaction Buffer	Not available.		
PfuUltra II HS DNA Polymerase	Not available.		
10X PCR Reaction Buffer	Not available.		
40 mM dNTP Mix (10 mM each dNTP)	Not available.		
Oligo (dT) Primer	100°C (212°F)		
Random Primers	100°C (212°F)		
100 mM DTT	100°C (212°F)		
Flash point	:		
		AccuScript High Fidelity RT	Not available.
		10X AccuScript RT Reaction Buffer	Not available.
		PfuUltra II HS DNA Polymerase	Not available.
		10X PCR Reaction Buffer	Not available.
		40 mM dNTP Mix (10 mM each dNTP)	Not available.
		Oligo (dT) Primer	Not available.
		Random Primers	Not available.
		100 mM DTT	Not available.
		Evaporation rate	:
AccuScript High Fidelity RT	Not available.		
10X AccuScript RT Reaction Buffer	Not available.		
PfuUltra II HS DNA Polymerase	Not available.		
10X PCR Reaction Buffer	Not available.		
40 mM dNTP Mix (10 mM each dNTP)	Not available.		
Oligo (dT) Primer	Not available.		
Random Primers	Not available.		
100 mM DTT	Not available.		
Flammability (solid, gas)	:		
		AccuScript High Fidelity RT	Not applicable.
		10X AccuScript RT Reaction Buffer	Not applicable.
		PfuUltra II HS DNA Polymerase	Not applicable.
		10X PCR Reaction Buffer	Not applicable.
		40 mM dNTP Mix (10 mM each dNTP)	Not applicable.
		Oligo (dT) Primer	Not applicable.
		Random Primers	Not applicable.
		100 mM DTT	Not applicable.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	:  Nose-Free Water	AccuScript High Fidelity RT	Not available.		
		10X AccuScript RT Reaction Buffer	Not available.		
		PfuUltra II HS DNA Polymerase	Not available.		
		10X PCR Reaction Buffer	Not available.		
		40 mM dNTP Mix (10 mM each dNTP)	Not available.		
		Oligo (dT) Primer	Not available.		
		Random Primers	Not available.		
		100 mM DTT	Not available.		
		Vapour pressure	:  Nose-Free Water	AccuScript High Fidelity RT	Not available.
				10X AccuScript RT Reaction Buffer	Not available.
PfuUltra II HS DNA Polymerase	Not available.				
10X PCR Reaction Buffer	Not available.				
40 mM dNTP Mix (10 mM each dNTP)	Not available.				
Oligo (dT) Primer	Not available.				
Random Primers	Not available.				
100 mM DTT	Not available.				
Vapour density	:  Nose-Free Water			AccuScript High Fidelity RT	Not available.
				10X AccuScript RT Reaction Buffer	Not available.
		PfuUltra II HS DNA Polymerase	Not available.		
		10X PCR Reaction Buffer	Not available.		
		40 mM dNTP Mix (10 mM each dNTP)	Not available.		
		Oligo (dT) Primer	Not available.		
		Random Primers	Not available.		
		100 mM DTT	Not available.		
		Relative density	:  Nose-Free Water	AccuScript High Fidelity RT	Not available.
				10X AccuScript RT Reaction Buffer	Not available.
PfuUltra II HS DNA Polymerase	Not available.				
10X PCR Reaction Buffer	Not available.				
40 mM dNTP Mix (10 mM each dNTP)	Not available.				
Oligo (dT) Primer	Not available.				
Random Primers	Not available.				
100 mM DTT	Not available.				
Solubility	:  Nose-Free Water			AccuScript High Fidelity RT	Easily soluble in the following materials: cold water and hot water.
				10X AccuScript RT Reaction Buffer	Soluble in the following materials: cold water and hot water.
		PfuUltra II HS DNA Polymerase	Easily soluble in the following materials: cold water and hot water.		
		10X PCR Reaction Buffer	Soluble in the following materials: cold water and hot water.		
		40 mM dNTP Mix (10 mM each dNTP)	Easily soluble in the following materials: cold water and hot water.		
		Oligo (dT) Primer	Easily soluble in the following materials: cold water and hot water.		
		Random Primers	Easily soluble in the following materials: cold water		

Section 9. Physical and chemical properties

		100 mM DTT	and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	<input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 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. Not available.
Auto-ignition temperature	:	<input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 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. Not available.
Decomposition temperature	:	<input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 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. Not available.
Viscosity	:	<input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer 40 mM dNTP Mix (10 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. Not available.

Section 10. Stability and reactivity

Reactivity	:	<input checked="" type="checkbox"/> Nase-Free Water AccuScript High Fidelity RT 10X AccuScript RT Reaction Buffer PfuUltra II HS DNA Polymerase 10X PCR Reaction Buffer	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. 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. No specific test data related to reactivity available for
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Section 10. Stability and reactivity

40 mM dNTP Mix (10 mM each dNTP)	this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Oligo (dT) Primer	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	The product is stable.
AccuScript High Fidelity RT	The product is stable.
10X AccuScript RT Reaction Buffer	The product is stable.
PfuUltra II HS DNA Polymerase	The product is stable.
10X PCR Reaction Buffer	The product is stable.
40 mM dNTP Mix (10 mM each dNTP)	The product is stable.
Oligo (dT) Primer	The product is stable.
Random Primers	The product is stable.
100 mM DTT	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 Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
PfuUltra II HS DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
10X PCR Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
40 mM dNTP Mix (10 mM each dNTP)	Under normal conditions of storage and use, hazardous reactions will not occur.
Oligo (dT) Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
Random Primers	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	No specific data.
AccuScript High Fidelity RT	No specific data.
10X AccuScript RT Reaction Buffer	No specific data.
PfuUltra II HS DNA Polymerase	No specific data.
10X PCR Reaction Buffer	No specific data.
40 mM dNTP Mix (10 mM each dNTP)	No specific data.
Oligo (dT) Primer	No specific data.
Random Primers	No specific data.
100 mM DTT	No specific data.

Section 10. Stability and reactivity

Incompatible materials	: RNase-Free Water	AccuScript High Fidelity RT	May react or be incompatible with oxidising materials.
		10X AccuScript RT Reaction Buffer	May react or be incompatible with oxidising materials.
		PfuUltra II HS DNA Polymerase	May react or be incompatible with oxidising materials.
		10X PCR Reaction Buffer	May react or be incompatible with oxidising materials.
		40 mM dNTP Mix (10 mM each dNTP)	May react or be incompatible with oxidising materials.
		Oligo (dT) Primer	May react or be incompatible with oxidising materials.
		Random Primers	May react or be incompatible with oxidising materials.
		100 mM DTT	May react or be incompatible with oxidising materials.

Hazardous decomposition products	: RNase-Free Water	AccuScript High Fidelity RT	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		10X AccuScript RT Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		PfuUltra II HS DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		10X PCR Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		40 mM dNTP Mix (10 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
AccuScript High Fidelity RT Glycerol	LD50 Oral	Rat	12600 mg/kg	-
PfuUltra II HS DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
AccuScript High Fidelity RT Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
PfuUltra II HS DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	<input checked="" type="checkbox"/> Nose-Free Water	Not available.
	AccuScript High Fidelity RT	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10X AccuScript RT Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	PfuUltra II HS DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10X PCR Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	40 mM dNTP Mix (10 mM each dNTP)	Not available.
	Oligo (dT) Primer	Not available.
Random Primers	Not available.	
100 mM DTT	Not available.	

Potential acute health effects

Eye contact	<input checked="" type="checkbox"/> Nose-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.

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	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.
Inhalation	: <input checked="" type="checkbox"/> Nase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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	: <input checked="" type="checkbox"/> Nase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.
Ingestion	: <input checked="" type="checkbox"/> Nase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: <input checked="" type="checkbox"/> Nase-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.
Inhalation	: <input checked="" type="checkbox"/> Nase-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.

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	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.
Skin contact	: RNase-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.
Ingestion	: RNase-Free Water	No specific data.
	AccuScript High Fidelity RT	No specific data.
	10X AccuScript RT Reaction Buffer	No specific data.
	PfuUltra II HS DNA Polymerase	No specific data.
	10X PCR Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM each dNTP)	No specific data.
	Oligo (dT) Primer	No specific data.
	Random Primers	No specific data.
	100 mM DTT	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General	: RNase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.
Carcinogenicity	: RNase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM	No known significant effects or critical hazards.

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	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.
Mutagenicity	: RNase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.
Teratogenicity	: RNase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.
Developmental effects	: RNase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.
Fertility effects	: RNase-Free Water	No known significant effects or critical hazards.
	AccuScript High Fidelity RT	No known significant effects or critical hazards.
	10X AccuScript RT Reaction Buffer	No known significant effects or critical hazards.
	PfuUltra II HS DNA Polymerase	No known significant effects or critical hazards.
	10X PCR Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM each dNTP)	No known significant effects or critical hazards.
	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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
100 mM DTT Oral	32467.5 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> AccuScript High Fidelity RT Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<input checked="" type="checkbox"/> PfuUltra II HS DNA Polymerase Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> RNase-Free Water Water	-	100 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<input checked="" type="checkbox"/> RNase-Free Water Water	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> RNase-Free Water Water	-1.38	-	low
<input checked="" type="checkbox"/> AccuScript High Fidelity RT Glycerol	-1.76	-	low
<input checked="" type="checkbox"/> PfuUltra II HS DNA Polymerase Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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 minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) : Not determined.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

- Canada** : Not determined.
- China** : Not determined.
- Europe** : Not determined.
- Japan** : **Japan inventory (ENCS):** All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
- Malaysia** : Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : All components are listed or exempted.
- Turkey** : Not determined.
- United States** : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 25/11/2016

Date of previous issue : 28/04/2014.

Version : 4

Key to abbreviations

: ADG = Australian Dangerous Goods
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 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)
 NOHSC = National Occupational Health and Safety Commission
 SUSMP = Standard Uniform Schedule of Medicine and Poisons
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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