SAFETY DATA SHEET



AffinityScript Multiple Temperature cDNA Synthesis Kit

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

1.1 Product identifier

Product name : AffinityScript Multiple Temperature cDNA Synthesis Kit

CAS number : RNase-Free Water 7732-18-5 AffinityScript Multiple Not applicable.

Temperature Reverse

Transcriptase

10X AffinityScript RT Not applicable.

buffer

RNase Block
Oligo(dT) Primer
Random Primers
100 mM dNTP Mix (25
Not applicable.
Not applicable.
Not applicable.

mM each dNTP)

Part no. (chemical kit) : 200436

Part no. : RNase-Free Water 600164-58

AffinityScript Multiple Temperature Reverse 200436-60

Transcriptase

 10X AffinityScript RT buffer
 200420-54

 RNase Block
 200820-56

 Oligo(dT) Primer
 200820-52

 Random Primers
 200420-53

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

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

Identified uses : Analytical reagent.

RNase-Free Water 1.2 ml

AffinityScript Multiple Temperature Reverse 0.05 ml (50 reactions)

Transcriptase

10X AffinityScript RT buffer 0.1 ml

| RNase Block | 0.025 ml (1000 U 40 U/μl) | 0.05 ml (25 μg 0.5 μg/μl) | Random Primers | 0.15 ml (15 μg 0.1 μg/μl) |

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

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH

Hewlett-Packard-Str. 8 76337 Waldbronn Germany

0800 603 1000

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

: CHEMTREC®: +(44)-870-8200418

operation)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : RNase-Free Water Mono-constituent substance

> AffinityScript Multiple Mixture

Temperature Reverse

Transcriptase

10X AffinityScript RT Mixture

buffer

RNase Block Mixture Oligo(dT) Primer Mixture Random Primers Mixture 100 mM dNTP Mix (25 Mixture

mM each dNTP)

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

Not classified.

RNase-Free Water The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

AffinityScript Multiple Temperature The product is not classified as hazardous according to Regulation (EC)

Reverse Transcriptase 1272/2008 as amended.

10X AffinityScript RT buffer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

RNase Block The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Oligo(dT) Primer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Random Primers The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

100 mM dNTP Mix (25 mM each The product is not classified as hazardous according to Regulation (EC)

dNTP)

1272/2008 as amended.

: AffinityScript Multiple Percentage of the mixture consisting of ingredient(s) of

Ingredients of unknown

toxicity

Temperature Reverse

Transcriptase 10X AffinityScript RT buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

RNase Block Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

100 mM dNTP Mix (25

mM each dNTP)

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

Contains 5.7% of components with unknown hazards to the

unknown acute oral toxicity: 1 - 10%

mM each dNTP) ecotoxicity

aquatic environment

: 100 mM dNTP Mix (25

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

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

2.2 Label elements

Ingredients of unknown

: RNase-Free Water Signal word No signal word. AffinityScript Multiple No signal word.

Temperature Reverse

Transcriptase

10X AffinityScript RT No signal word.

buffer

RNase Block No signal word. Oligo(dT) Primer No signal word. Random Primers No signal word. 100 mM dNTP Mix (25 No signal word.

mM each dNTP)

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SECTION 2: Hazards identification

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RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase

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

10X AffinityScript RT

buffer

No known significant effects or critical hazards.

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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 AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not applicable. Not applicable.

Not applicable.

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

Response

RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not applicable. Not applicable.

Not applicable.

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

Storage

: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not applicable. Not applicable.

Not applicable.

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

Disposal

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase 10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not applicable. Not applicable.

Not applicable.

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

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SECTION 2: Hazards identification

Supplemental label elements

: RNase-Free Water AffinityScript Multiple Temperature Reverse Not applicable. Not applicable.

Transcriptase

10X AffinityScript RT

buffer

Not applicable. Not applicable.

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not applicable. Not applicable. Not applicable.

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

RNase-Free Water AffinityScript Multiple Temperature Reverse **Transcriptase**

Not applicable. Not applicable.

10X AffinityScript RT

Not applicable.

buffer

RNase Block Not applicable. Oligo(dT) Primer Not applicable. Not applicable. Random Primers 100 mM dNTP Mix (25 Not applicable. mM each dNTP)

Special packaging requirements

Tactile warning of danger

: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase

Not applicable. Not applicable.

10X AffinityScript RT

buffer

Not applicable.

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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

2.3 Other hazards

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

PBT	Р	В	Т	vPvB	vP	vB
RNase-Free Water						
Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

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

Transcriptase 10X AffinityScript RT

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

buffer RNase Block

This mixture does not contain any substances that are

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

Oligo(dT) Primer

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

Random Primers

assessed to be a PBT or a vPvB.

100 mM dNTP Mix (25 mM each dNTP)

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

Other hazards which do

not result in classification : RNase-Free Water None known. AffinityScript Multiple None known. Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

None known.

None known.

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

None known. None known.

mM each dNTP)

None known.

SECTION 3: Composition/information on ingredients

3.1 Substances RNase-Free Water Mono-constituent substance

AffinityScript Multiple Temperature Mixture

Reverse Transcriptase 10X AffinityScript RT buffer Mixture RNase Block Mixture Oligo(dT) Primer Mixture Random Primers Mixture 100 mM dNTP Mix (25 mM each Mixture

dNTP)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
RNase-Free Water					
water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	-	[1]
AffinityScript Multiple Temperature Reverse Transcriptase					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
RNase Block					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

Type

RNase-Free Water [1] Constituent

AffinityScript Multiple Temperature Reverse [1] Substance with a workplace exposure limit

Transcriptase

RNase Block [1] Substance with a workplace exposure limit

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

Inhalation

AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT buffer

RNase Block

Oligo(dT) Primer

: RNase-Free Water

Random Primers

100 mM dNTP Mix (25 mM each dNTP)

: RNase-Free Water

AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block

Oligo(dT) Primer

Random Primers

100 mM dNTP Mix (25 mM each dNTP)

Skin contact : RNase-Free Water

AffinityScript Multiple Temperature Reverse

Transcriptase 10X AffinityScript RT

buffer

RNase Block

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

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

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

Immediately flush eyes with plenty of water, occasionally

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

any contact lenses. Get medical attention if irritation occurs.

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. 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.

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.

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

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symptoms occur.

Random Primers Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

100 mM dNTP Mix (25

mM each dNTP)

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

symptoms occur.

: RNase-Free Water Wash out mouth with water. If material has been swallowed Ingestion

> 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.

AffinityScript Multiple Temperature Reverse Transcriptase

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

symptoms occur.

10X AffinityScript RT

buffer

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

do so by medical personnel. Get medical attention if symptoms occur.

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. If material has been swallowed Oligo(dT) Primer

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. If material has been swallowed

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

symptoms occur.

100 mM dNTP Mix (25

mM each dNTP)

Wash out mouth with water. 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.

Protection of first-aiders : RNase-Free Water No action shall be taken involving any personal risk or

No action shall be taken involving any personal risk or

without suitable training.

without suitable training.

AffinityScript Multiple Temperature Reverse

Transcriptase

No action shall be taken involving any personal risk or

10X AffinityScript RT buffer

without suitable training.

No action shall be taken involving any personal risk or RNase Block

without suitable training.

No action shall be taken involving any personal risk or

Oligo(dT) Primer without suitable training.

No action shall be taken involving any personal risk or

Random Primers

without suitable training.

100 mM dNTP Mix (25 No action shall be taken involving any personal risk or mM each dNTP) without suitable training.

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

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SECTION 4: First aid measures						
Eye contact	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase	No known significant effects or critical hazards. No known significant effects or critical hazards.				
	10X AffinityScript RT buffer	No known significant effects or critical hazards.				
	RNase Block	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 dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.				
Inhalation	: RNase-Free Water	No known significant effects or critical hazards.				
	AffinityScript Multiple Temperature Reverse Transcriptase	No known significant effects or critical hazards.				
	10X AffinityScript RT buffer	No known significant effects or critical hazards.				
	RNase Block	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 dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.				
Skin contact	: RNase-Free Water	No known significant effects or critical hazards.				
	AffinityScript Multiple Temperature Reverse Transcriptase	No known significant effects or critical hazards.				
	10X AffinityScript RT buffer	No known significant effects or critical hazards.				
	RNase Block	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 dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.				
Ingestion	: RNase-Free Water	No known significant effects or critical hazards.				
•	AffinityScript Multiple	No known significant effects or critical hazards.				

No known significant effects or critical hazards. Temperature Reverse Transcriptase 10X AffinityScript RT No known significant effects or critical hazards. buffer RNase Block 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 dNTP Mix (25 No known significant effects or critical hazards. mM each dNTP)

Over-exposure signs/symptoms

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: RNase-Free Water No specific data. AffinityScript Multiple No specific data. Temperature Reverse Transcriptase 10X AffinityScript RT No specific data. buffer RNase Block No specific data. Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM dNTP Mix (25 No specific data. mM each dNTP)

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SECTION 4: First aid measures

Inhalation : RNase-Free Water No specific data. No specific data.

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block No specific data. Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM dNTP Mix (25 No specific data.

mM each dNTP)

Skin contact : RNase-Free Water

> AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block No specific data. Oligo(dT) Primer No specific data. No specific data. Random Primers 100 mM dNTP Mix (25 No specific data.

mM each dNTP) Ingestion RNase-Free Water

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : RNase-Free Water

> AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block

Oligo(dT) Primer

Random Primers

100 mM dNTP Mix (25

mM each dNTP)

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire. symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Specific treatments

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 No specific treatment. No specific treatment.

No specific treatment.

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

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SECTION 4: First aid measures

mM each dNTP)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing

media

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase 10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

mM each dNTP) : RNase-Free Water

> AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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

Use an extinguishing agent suitable for the surrounding fire.

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

None known. None known.

None known.

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

container may burst.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

Hazardous combustion

products

: RNase-Free Water

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT buffer

RNase Block

Oligo(dT) Primer

Random Primers

100 mM dNTP Mix (25

mM each dNTP)

RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase

No specific data.

Decomposition products may include the following materials:

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

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

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

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

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

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

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

carbon dioxide carbon monoxide

10X AffinityScript 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 No specific data.

Oligo(dT) Primer Random Primers No specific data.

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SECTION 5: Firefighting measures

100 mM dNTP Mix (25 mM each dNTP)

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: RNase-Free Water

AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer

RNase Block

Oligo(dT) Primer

Random Primers

100 mM dNTP Mix (25 mM each dNTP)

Special protective equipment for fire-fighters

: RNase-Free Water

AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT buffer

RNase Block

Oligo(dT) Primer

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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment

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

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

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

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

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

basic level of protection for chemical incidents.

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

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SECTION 5: Firefighting measures

100 mM dNTP Mix (25 mM each dNTP)

conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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

basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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.

AffinityScript Multiple Temperature Reverse Transcriptase

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 AffinityScript RT 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.

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 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 personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

100 mM dNTP Mix (25 mM each dNTP)

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

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

For emergency responders

: RNase-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".

AffinityScript Multiple Temperature Reverse Transcriptase

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 AffinityScript RT

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".

RNase Block

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".

If specialised clothing is required to deal with the spillage,

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SECTION 6: Accidental release measures

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 dNTP Mix (25

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".

6.2 Environmental precautions

: RNase-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).

AffinityScript Multiple Temperature Reverse Transcriptase

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 AffinityScript RT

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).

RNase Block Avoid dispersal of spilt material and runoff and contact with

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

(sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with Oligo(dT) Primer

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

(sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with Random Primers

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

(sewers, waterways, soil or air).

100 mM dNTP Mix (25 mM each dNTP)

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

(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: RNase-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.

AffinityScript Multiple Temperature Reverse Transcriptase

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 AffinityScript 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.

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

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SECTION 6: Accidental release measures

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

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

of via a licensed waste disposal contractor.

100 mM dNTP Mix (25 mM each dNTP)

mM each dNTP)

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

of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : RNase-Free Water Put on appropriate personal protective equipment (see

Section 8).

AffinityScript Multiple Temperature Reverse

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

Temperature Reverse Transcriptase

Put on appropriate personal protective equipment (see

10X AffinityScript RT buffer

Section 8).

RNase Block

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 dNTP Mix (25

mM each dNTP)

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. Eating, drinking and smoking should be prohibited in areas

Temperature Reverse Transcriptase

AffinityScript Multiple

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

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.
Workers should wash hands and face before eating,

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed.

10X AffinityScript RT

buffer

RNase Block

Oligo(dT) Primer

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SECTION 7: Handling and storage

Random Primers

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.

Workers should wash hands and face before eating,

100 mM dNTP Mix (25 mM each dNTP)

7.2 Conditions for safe storage, including any incompatibilities

: RNase-Free Water **Storage**

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

AffinityScript Multiple Temperature Reverse Transcriptase

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

10X AffinityScript RT buffer

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

before handling or use.

RNase Block

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

contamination. See Section 10 for incompatible materials

before handling or use.

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

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SECTION 7: Handling and storage

been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Store in accordance with local regulations. Store in original Random Primers

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

contamination. See Section 10 for incompatible materials

before handling or use.

100 mM dNTP Mix (25 mM each dNTP)

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

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

7.3 Specific end use(s)

Recommendations

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

mM each dNTP)

Industrial sector specific solutions

RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

mM each dNTP)

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

Industrial applications, Professional applications.

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

Not available. Not available.

Not available.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
AffinityScript Multiple Temperature Reverse Transcriptase	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist
RNase Block Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m³ 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

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

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.

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SECTION 8: Exposure controls/personal protection

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

Liquid.

Liquid.

Liquid.

Liquid.

Liquid.

Colourless.

Not available.

Not available.

Odourless.

Not available.

9.1 Information on basic physical and chemical properties

_				
Λn	no	ara	nc	•
AΡ	NG	aı a		C

Physical state : RNase-Free Water Liquid. AffinityScript Multiple Liquid.

Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers

100 mM dNTP Mix (25

mM each dNTP)

: RNase-Free Water Colour

> AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Not available. Oligo(dT) Primer Not available. Random Primers Not available. 100 mM dNTP Mix (25 Not available.

mM each dNTP)

Odour RNase-Free Water

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

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

100 mM dNTP Mix (25

mM each dNTP)

Odour threshold : RNase-Free Water

> AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Not available. Oligo(dT) Primer Not available.

Random Primers 100 mM dNTP Mix (25

mM each dNTP)

Melting point/freezing point

RNase-Free Water $0^{\circ}C$

AffinityScript Multiple Not available.

Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Not available.

Oligo(dT) Primer 0°C

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SECTION 9: Physical and chemical properties

Initial boiling point and boiling range

0°C Random Primers

100 mM dNTP Mix (25 mM each dNTP)

Not available.

RNase-Free Water AffinityScript Multiple Temperature Reverse

100°C Not available.

Transcriptase

10X AffinityScript RT

Not available.

buffer

RNase Block Not available. 100°C Oligo(dT) Primer Random Primers 100°C 100 mM dNTP Mix (25

Not available.

mM each dNTP) **Flammability**

: RNase-Free Water Not applicable. AffinityScript Multiple Not applicable. Temperature Reverse

Transcriptase

10X AffinityScript RT

Not applicable.

buffer

RNase Block Not applicable. Oligo(dT) Primer Not applicable. Random Primers Not applicable. Not applicable. 100 mM dNTP Mix (25

mM each dNTP)

Upper/lower flammability: or explosive limits

RNase-Free Water AffinityScript Multiple Temperature Reverse

Not available. Not available.

Transcriptase

10X AffinityScript RT

Not available.

buffer

ŧ

RNase Block Not available. Oligo(dT) Primer Not available. Random Primers Not available. 100 mM dNTP Mix (25 Not available. mM each dNTP)

Flash point

Closed cup Open cup °C °C **Ingredient name** Method **Method AffinityScript Multiple Temperature Reverse Transcriptase** 177 glycerol **RNase Block**

Auto-ignition temperature

177 glycerol **Method Ingredient name** °C **AffinityScript Multiple Temperature Reverse Transcriptase** 370 glycerol **RNase Block** 370 glycerol

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SECTION 9: Physical and chemical properties

SECTION 9: Physic	ai and chemical pro	operties
Decomposition temperature	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not available. Not available.
pH	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	7 8 8.3 7.6 7.5 7.5 7.5
Viscosity	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not available. Not available.
Solubility(ies)	<u> </u>	Pegult
Solubility(les)	RNase-Free Water water AffinityScript Multiple	Result Soluble Temperature Reverse
	Transcriptase water 10X AffinityScript RT b	Soluble
	water RNase Block	Soluble
	water Oligo(dT) Primer	Soluble
	water Random Primers	Soluble
	water 100 mM dNTP Mix (25 water	mM each dNTP) Soluble
Partition coefficient: n- octanol/water	: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT buffer RNase Block	-1.38 Not applicable. Not applicable. Not applicable.
	Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)	Not applicable. Not applicable. Not applicable. Not applicable.
Vapour pressure	: RNase-Free Water	2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C]

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SECTION 9: Physical and chemical properties

	Vapour	Pressure	e at 20°C	Vap	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
AffinityScript Multiple Temperature Reverse Transcriptase								
water	17.5	2.3	-	92.258	12.3	-		
glycerol	0.000075	0.00001	-	0.0025	0.00033	-		
10X AffinityScript 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	-		
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 dNTP Mix (25 mM each dNTP)								
water	17.5	2.3	-	92.258	12.3	-		

Evaporation rate

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Not available. Not available.

Transcriptase

10X AffinityScript RT

Not available.

buffer

RNase Block Not available. Oligo(dT) Primer Not available. **Random Primers** Not available.

mM each dNTP)

100 mM dNTP Mix (25 Not available.

Relative density

: RNase-Free Water

AffinityScript Multiple Not available.

Temperature Reverse

Transcriptase 10X AffinityScript RT

Not available.

buffer

RNase Block Not available. Not available. Oligo(dT) Primer Random Primers Not available. 100 mM dNTP Mix (25

mM each dNTP)

Not available.

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SECTION 9: Physical and chemical properties

0.62 [Air = 1]Vapour density RNase-Free Water AffinityScript Multiple Not available.

> Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Not available. Oligo(dT) Primer Not available. Random Primers Not available. 100 mM dNTP Mix (25 Not available.

mM each dNTP)

RNase-Free Water **Explosive properties** Not available. Not available.

AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Not available. Oligo(dT) Primer Not available. Random Primers Not available. 100 mM dNTP Mix (25 Not available.

mM each dNTP)

RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not available.

Not available.

Not available.

Not available.

Not available.

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

Particle characteristics

Oxidising properties

Median particle size : RNase-Free Water Not applicable. AffinityScript Multiple Not applicable.

Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

Not applicable.

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

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : RNase-Free Water No specific test data related to reactivity available for this

> AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer RNase Block

Oligo(dT) Primer

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 this

product or its ingredients.

No specific test data related to reactivity available for this Random Primers

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SECTION 10: Stability and reactivity

100 mM dNTP Mix (25 mM each dNTP)

product or its ingredients.

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

10.2 Chemical stability

RNase-Free Water AffinityScript Multiple Temperature Reverse **Transcriptase**

The product is stable. The product is stable.

10X AffinityScript RT

buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

The product is stable.

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

10.3 Possibility of hazardous reactions : RNase-Free Water

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

AffinityScript Multiple Temperature Reverse Under normal conditions of storage and use, hazardous reactions will not occur.

Transcriptase 10X AffinityScript 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.

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 dNTP Mix (25 mM each dNTP)

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase

No specific data. No specific data.

10X AffinityScript RT

buffer

No specific data.

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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

10.5 Incompatible materials

RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT

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

buffer RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

mM each dNTP)

May react or be incompatible with oxidising materials.

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

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AffinityScript Multiple Temperature cDNA Synthesis Kit

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: RNase-Free Water

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

decomposition products should not be produced.

AffinityScript Multiple
Temperature Reverse
Transcriptase

10X AffinityScript RT

buffer RNase Block

Oligo(dT) Primer

Random Primers

100 mM dNTP Mix (25 mM each dNTP)

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

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

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous

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

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary

: Not available.

Sensitiser

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase 10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

mM each dNTP)

Not available.

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

Not available.

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

Not available. Not available. Not available.

Potential acute health effects

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SECTION 11: Toxicological information

Inhalation

RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT No known significant effects or critical hazards. No known significant effects or critical hazards.

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP) 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.

Ingestion

RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase 10X AffinityScript RT No known significant effects or critical hazards. No known significant effects or critical hazards.

10X Affinitys

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP) No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Skin contact

RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase No known significant effects or critical hazards. No known significant effects or critical hazards.

10X AffinityScript RT buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP) 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.

Eye contact

RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase No known significant effects or critical hazards. No known significant effects or critical hazards.

10X AffinityScript RT buffer

No known significant effects or critical hazards.

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP) 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

Inhalation

: RNase-Free Water AffinityScript Multiple Temperature Reverse Transcriptase No specific data. No specific data.

10X AffinityScript RT

No specific data.

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP) No specific data. No specific data. No specific data. No specific data.

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SECTION 11: Toxicological information

RNase-Free Water Ingestion

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

No specific data.

buffer

RNase Block No specific data. Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM dNTP Mix (25 No specific data.

mM each dNTP)

Skin contact : RNase-Free Water

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

No specific data.

No specific data. RNase Block No specific data. Oligo(dT) Primer Random Primers No specific data. 100 mM dNTP Mix (25 No specific data.

mM each dNTP)

: RNase-Free Water **Eye contact** No specific data. AffinityScript Multiple No specific data.

Temperature Reverse

Transcriptase

10X AffinityScript RT

buffer

RNase Block No specific data. Oligo(dT) Primer No specific data. Random Primers No specific data. 100 mM dNTP Mix (25 No specific data.

mM each dNTP)

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

Conclusion/Summary : Not available.

General

RNase-Free Water AffinityScript Multiple

Temperature Reverse Transcriptase

buffer

10X AffinityScript RT

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25

mM each dNTP)

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

RNase-Free Water Carcinogenicity

AffinityScript Multiple Temperature Reverse

Transcriptase

10X AffinityScript RT buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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.

: RNase-Free Water Mutagenicity

AffinityScript Multiple Temperature Reverse Transcriptase

10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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

Reproductive toxicity

: RNase-Free Water AffinityScript Multiple Temperature Reverse

Transcriptase 10X AffinityScript RT

buffer

RNase Block Oligo(dT) Primer Random Primers 100 mM dNTP Mix (25 mM each dNTP)

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary Not available.

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
RNase-Free Water			
water	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
RNase-Free Water			
water	-1.38	-	Low

12.4 Mobility in soil

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
RNase-Free Water water	Not applicable (Inorganic)	N/A	N/A		Not applicable (Inorganic)	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

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

Packaging

Methods of disposal

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

Special precautions

: 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

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

Additional information

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SECTION 14: Transport information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

No listed substance

Label : RNase-Free Water Not applicable.

AffinityScript Multiple Not applicable.

Temperature Reverse

Transcriptase

10X AffinityScript RT buffer
RNase Block
Oligo(dT) Primer
Random Primers
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

each dNTP)

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

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.

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SECTION 15: Regulatory information

Inventory list

: Not determined. **Australia** Canada : Not determined.

China : All components are listed or exempted.

Eurasian Economic

Union **Japan** : Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

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

Taiwan : All components are listed or exempted.

Thailand : Not determined. **Turkey** : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

15.2 Chemical safety

assessment

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

be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

1272/20081

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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