

SAFETY DATA SHEET

Alien Reference RNA VIC QRT-PCR Detection Kit, Part Number 300604

Section 1. Identification

1.1 Product identifier

Product name	: Alien Reference RNA VIC QRT-PCR Detection Kit, Part Number 300604
Part No. (Chemical Kit)	: 300604
Part No.	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl 300600-13 Alien Probe Forward Primer 300602-51 Alien Probe Reverse Primer 300602-52 Alien Probe (VIC) 300604-53
Validation date	: 12/21/2017

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

Material uses	: Analytical reagent.
	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl 0.02 ml (20 µl) Alien Probe Forward Primer 0.1 ml (2.5 µM 100 µl) Alien Probe Reverse Primer 0.1 ml (2.5 µM 100 µl) Alien Probe (VIC) 0.1 ml (4 µM 100 µl)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
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1.4 Emergency telephone number

In case of emergency	: CHEMTREC®: 1-800-424-9300
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Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Alien Probe Forward Primer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Alien Probe Reverse Primer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Alien Probe (VIC)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This

Section 2. Hazards identification

SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No signal word. No signal word. No signal word. No signal word.
Hazard statements	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	None known. None known. None known. None known.
2.3 Other hazards		
Hazards not otherwise classified	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Alien RNA Transcript 3 x 10E10 copies/μl	Mixture
	Alien Probe Forward Primer	Mixture
	Alien Probe Reverse Primer	Mixture
	Alien Probe (VIC)	Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no 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

4.1 Description of necessary first aid measures

Eye contact	: Alien RNA Transcript 3 x 10E10 copies/μl	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.
	Alien Probe Forward 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.
	Alien Probe Reverse 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.
	Alien Probe (VIC)	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	: Alien RNA Transcript 3 x 10E10 copies/μl	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Alien Probe Forward Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Alien Probe Reverse Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Alien Probe (VIC)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Alien RNA Transcript 3 x 10E10 copies/μl	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Alien Probe Forward Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Alien Probe Reverse Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Alien Probe (VIC)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl	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.
	Alien Probe Forward 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.
	Alien Probe Reverse 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.
	Alien Probe (VIC)	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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.
Inhalation	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No specific data. No specific data. No specific data. No specific data.
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Section 4. First aid measures

Inhalation	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Probe Forward Primer	No specific data.
	Alien Probe Reverse Primer	No specific data.
	Alien Probe (VIC)	No specific data.
Skin contact	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Probe Forward Primer	No specific data.
	Alien Probe Reverse Primer	No specific data.
	Alien Probe (VIC)	No specific data.
Ingestion	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Probe Forward Primer	No specific data.
	Alien Probe Reverse Primer	No specific data.
	Alien Probe (VIC)	No specific data.

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

Notes to physician	: Alien RNA Transcript 3 x 10E10 copies/µl	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Alien Probe Forward Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Alien Probe Reverse Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Alien Probe (VIC)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific treatment.
	Alien Probe Forward Primer	No specific treatment.
	Alien Probe Reverse Primer	No specific treatment.
	Alien Probe (VIC)	No specific treatment.
Protection of first-aiders	: Alien RNA Transcript 3 x 10E10 copies/µl	No action shall be taken involving any personal risk or without suitable training.
	Alien Probe Forward Primer	No action shall be taken involving any personal risk or without suitable training.
	Alien Probe Reverse Primer	No action shall be taken involving any personal risk or without suitable training.
	Alien Probe (VIC)	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Alien RNA Transcript 3 x 10E10 copies/µl	Use an extinguishing agent suitable for the surrounding fire.
	Alien Probe Forward Primer	Use an extinguishing agent suitable for the surrounding fire.
	Alien Probe Reverse Primer	Use an extinguishing agent suitable for the surrounding fire.
	Alien Probe (VIC)	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Fire-fighting measures

Unsuitable extinguishing media	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	None known. None known. None known. None known.
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5.2 Special hazards arising from the substance or mixture




Specific hazards arising from the chemical	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No specific data. No specific data. No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.
Special protective equipment for fire-fighters	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (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.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures


For non-emergency personnel	:  Alien RNA Transcript 3 x 10E10 copies/µl	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Alien Probe Forward Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Alien Probe Reverse Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Alien Probe (VIC)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:  Alien RNA Transcript 3 x 10E10 copies/µl	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Alien Probe Forward Primer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Alien Probe Reverse Primer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Alien Probe (VIC)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:  Alien RNA Transcript 3 x 10E10 copies/µl	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Alien Probe Forward Primer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Alien Probe Reverse Primer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 6. Accidental release measures

Alien Probe (VIC)

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

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up :  Alien RNA Transcript 3 x 10E10 copies/μl

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.

Alien Probe Forward 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.

Alien Probe Reverse 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.

Alien Probe (VIC)

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

7.1 Precautions for safe handling

Protective measures :  Alien RNA Transcript 3 x 10E10 copies/μl

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

Alien Probe Forward Primer

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

Alien Probe Reverse Primer

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

Alien Probe (VIC)

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

Advice on general occupational hygiene :  Alien RNA Transcript 3 x 10E10 copies/μl

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.

Alien Probe Forward 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.

Alien Probe Reverse Primer

Eating, drinking and smoking should be prohibited

Section 7. Handling and storage

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.

Alien Probe (VIC)

7.2 Conditions for safe storage, including any incompatibilities

: Alien RNA Transcript 3 x 10E10 copies/μl

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

Alien Probe Forward 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Alien Probe Reverse 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Alien Probe (VIC)

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

Section 7. Handling and storage

7.3 Specific end use(s)

Recommendations	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not applicable. Not applicable. Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

- 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Alien RNA Transcript 3 x 10E10 copies/μl	Liquid.
	Alien Probe Forward Primer	Liquid.
	Alien Probe Reverse Primer	Liquid.
	Alien Probe (VIC)	Liquid.
Color	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	Not available.
	Alien Probe Reverse Primer	Not available.
	Alien Probe (VIC)	Not available.
Odor	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	Not available.
	Alien Probe Reverse Primer	Not available.
	Alien Probe (VIC)	Not available.
Odor threshold	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	Not available.
	Alien Probe Reverse Primer	Not available.
	Alien Probe (VIC)	Not available.
pH	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	7.5
	Alien Probe Reverse Primer	7.5
	Alien Probe (VIC)	Not available.
Melting point	: Alien RNA Transcript 3 x 10E10 copies/μl	0°C (32°F)
	Alien Probe Forward Primer	0°C (32°F)
	Alien Probe Reverse Primer	0°C (32°F)
	Alien Probe (VIC)	0°C (32°F)
Boiling point	: Alien RNA Transcript 3 x 10E10 copies/μl	100°C (212°F)
	Alien Probe Forward Primer	100°C (212°F)
	Alien Probe Reverse Primer	100°C (212°F)
	Alien Probe (VIC)	100°C (212°F)
Flash point	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	Not available.
	Alien Probe Reverse Primer	Not available.
	Alien Probe (VIC)	Not available.
Evaporation rate	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	Not available.
	Alien Probe Reverse Primer	Not available.
	Alien Probe (VIC)	Not available.
Flammability (solid, gas)	: Alien RNA Transcript 3 x 10E10 copies/μl	Not applicable.
	Alien Probe Forward Primer	Not applicable.
	Alien Probe Reverse Primer	Not applicable.
	Alien Probe (VIC)	Not applicable.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Vapor pressure	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Vapor density	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Relative density	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Solubility	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Decomposition temperature	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.
Viscosity	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	Not available. Not available. Not available. Not available.

Section 10. Stability and reactivity

10.1 Reactivity	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC) 	<p>No specific test data related to reactivity available for this product or its ingredients.</p> <p>No specific test data related to reactivity available for this product or its ingredients.</p> <p>No specific test data related to reactivity available for this product or its ingredients.</p> <p>No specific test data related to reactivity available for this product or its ingredients.</p>
10.2 Chemical stability	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC) 	<p>The product is stable.</p> <p>The product is stable.</p> <p>The product is stable.</p> <p>The product is stable.</p>
10.3 Possibility of hazardous reactions	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC) 	<p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p>
10.4 Conditions to avoid	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC) 	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p>
10.5 Incompatible materials	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC) 	<p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p>
10.6 Hazardous decomposition products	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC) 	<p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p>

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

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 the likely routes of exposure	: Alien RNA Transcript 3 x 10E10 copies/μl	Not available.
	Alien Probe Forward Primer	Not available.
	Alien Probe Reverse Primer	Not available.
	Alien Probe (VIC)	Not available.

Potential acute health effects

Eye contact	: Alien RNA Transcript 3 x 10E10 copies/μl	No known significant effects or critical hazards.
	Alien Probe Forward Primer	No known significant effects or critical hazards.
	Alien Probe Reverse Primer	No known significant effects or critical hazards.
	Alien Probe (VIC)	No known significant effects or critical hazards.
Inhalation	: Alien RNA Transcript 3 x 10E10 copies/μl	No known significant effects or critical hazards.
	Alien Probe Forward Primer	No known significant effects or critical hazards.
	Alien Probe Reverse Primer	No known significant effects or critical hazards.
	Alien Probe (VIC)	No known significant effects or critical hazards.
Skin contact	: Alien RNA Transcript 3 x 10E10 copies/μl	No known significant effects or critical hazards.
	Alien Probe Forward Primer	No known significant effects or critical hazards.
	Alien Probe Reverse Primer	No known significant effects or critical hazards.
	Alien Probe (VIC)	No known significant effects or critical hazards.

Section 11. Toxicological information

Ingestion	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No specific data. No specific data. No specific data. No specific data.
Inhalation	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No specific data. No specific data. No specific data. No specific data.
Skin contact	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No specific data. No specific data. No specific data. No specific data.
Ingestion	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No specific data. No specific data. No specific data. No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.
Carcinogenicity	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.

Section 11. Toxicological information

Teratogenicity	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.
Developmental effects	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	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.
Fertility effects	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Probe Forward Primer Alien Probe Reverse Primer Alien Probe (VIC)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

Section 13. Disposal considerations

sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

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

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

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	: <input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/μl	Not applicable.
	Alien Probe Forward Primer	Not applicable.
	Alien Probe Reverse Primer	Not applicable.
	Alien Probe (VIC)	Not applicable.

Section 15. Regulatory information

Composition/information on ingredients

No products were found.

State regulations

- Massachusetts** : None of the components are listed.
- New York** : None of the components are listed.
- New Jersey** : None of the components are listed.
- Pennsylvania** : None of the components are listed.

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.

Inventory list

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

Section 16. Other information

History

- Date of issue** : 12/21/2017
- Date of previous issue** : 09/24/2015.
- Version** : 2

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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