

SAFETY DATA SHEET

Alien QRT-PCR Inhibitor Alert, Part Number 300600

Section 1. Identification

Product identifier	: Alien QRT-PCR Inhibitor Alert, Part Number 300600	
Part no. (chemical kit)	: 300600	
Part no.	: Alien RNA Transcript 3 x 10E10 copies/μl	300600-13
	: Alien Primer Mix	300600-14
Material uses	: Analytical reagent.	
	: Alien RNA Transcript 3 x 10E10 copies/μl	20 μl
	: Alien Primer Mix	2.5 μM 400 μl
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770	
Emergency telephone number (with hours of operation)	: CHEMTREC®: 1-800-424-9300	

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	No signal word. No signal word.
Hazard statements	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	Not applicable. Not applicable.
Response	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	Not applicable. Not applicable.
Storage	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	Not applicable. Not applicable.
Disposal	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	Not applicable. Not applicable.
Supplemental label elements	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	None known. None known.
Other hazards which do not result in classification	: Alien RNA Transcript 3 x 10E10 copies/μl Alien Primer Mix	None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Alien RNA Transcript 3 x 10E10 copies/µl	Mixture
	: Alien Primer Mix	Mixture

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

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 Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: 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 Primer Mix	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 Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Alien RNA Transcript 3 x 10E10 copies/µl	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.
	: Alien Primer Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	: Alien Primer Mix	No known significant effects or critical hazards.
Inhalation	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	: Alien Primer Mix	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 Primer Mix	No known significant effects or critical hazards.
Ingestion	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	: Alien Primer Mix	No known significant effects or critical hazards.

Section 4. First-aid measures

Over-exposure signs/symptoms

Eye contact	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	No specific data. No specific data.
Inhalation	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	No specific data. No specific data.
Skin contact	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	No specific data. No specific data.
Ingestion	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	No specific data. No specific data.

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

Notes to physician	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	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.
Specific treatments	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	No specific treatment. No specific treatment.
Protection of first-aiders	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	None known. None known.
Specific hazards arising from the chemical	: Alien RNA Transcript 3 x 10E10 copies/µl Alien Primer Mix	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 Primer Mix	No specific data. No specific data.

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Alien RNA Transcript 3 x 10E10 copies/ μ l	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.
	Alien Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Alien RNA Transcript 3 x 10E10 copies/ μ l	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Alien Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up	: Alien RNA Transcript 3 x 10E10 copies/ μ l	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 Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Primer Mix	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Alien RNA Transcript 3 x 10E10 copies/ μ l Alien Primer Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- 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 and safety characteristics

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

Appearance

- | | | |
|-----------------------|--|----------------|
| Physical state | : Alien RNA Transcript 3 x 10E10 copies/µl | Liquid. |
| | : Alien Primer Mix | Liquid. |
| Color | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available. |
| | : Alien Primer Mix | Not available. |
| Odor | : Alien RNA Transcript 3 x 10E10 copies/µl | Not available. |
| | : Alien Primer Mix | Not available. |

Section 9. Physical and chemical properties and safety characteristics

Odor threshold : Alien RNA Transcript 3 x 10E10 copies/µl Not available.

Alien Primer Mix Not available.

pH : Alien RNA Transcript 3 x 10E10 copies/µl Not available.

Alien Primer Mix Not available.

Melting point/freezing point : Alien RNA Transcript 3 x 10E10 copies/µl 0°C (32°F)

Alien Primer Mix 0°C (32°F)

Boiling point, initial boiling point, and boiling range : Alien RNA Transcript 3 x 10E10 copies/µl 100°C (212°F)

Alien Primer Mix 100°C (212°F)

Flash point :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
Alien RNA Transcript 3 x 10E10 copies/µl						
Edetic acid	>100	>212	DIN 51758			
Alien Primer Mix						
Edetic acid	>100	>212	DIN 51758			

Evaporation rate : Alien RNA Transcript 3 x 10E10 copies/µl Not available.

Alien Primer Mix Not available.

Flammability : Alien RNA Transcript 3 x 10E10 copies/µl Not applicable.

Alien Primer Mix Not applicable.

Lower and upper explosion limit/flammability limit : Alien RNA Transcript 3 x 10E10 copies/µl Not available.

Alien Primer Mix Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Alien RNA Transcript 3 x 10E10 copies/µl						
water	23.8	3.2		92.258	12.3	
Edetic acid	0	0				
Alien Primer Mix						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

Relative vapor density : Alien RNA Transcript 3 x 10E10 copies/µl Not available.

Alien Primer Mix Not available.

Relative density : Alien RNA Transcript 3 x 10E10 copies/µl Not available.

Alien Primer Mix Not available.

Section 9. Physical and chemical properties and safety characteristics

Solubility : Alien RNA Transcript 3 x 10E10 copies/µl Easily soluble in the following materials: cold water and hot water.
Alien Primer Mix Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water : Alien RNA Transcript 3 x 10E10 copies/µl Not applicable.
Alien Primer Mix Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
<input checked="" type="checkbox"/> Alien RNA Transcript 3 x 10E10 copies/µl			
Edetic acid	>400	>752	VDI 2263
Alien Primer Mix			
Edetic acid	>400	>752	VDI 2263

Decomposition temperature : Alien RNA Transcript 3 x 10E10 copies/µl Not available.
Alien Primer Mix Not available.

Viscosity : Alien RNA Transcript 3 x 10E10 copies/µl Not available.
Alien Primer Mix Not available.

Particle characteristics

Median particle size : Alien RNA Transcript 3 x 10E10 copies/µl Not applicable.
Alien Primer Mix Not applicable.

Section 10. Stability and reactivity

Reactivity : Alien RNA Transcript 3 x 10E10 copies/µl No specific test data related to reactivity available for this product or its ingredients.
Alien Primer Mix No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Alien RNA Transcript 3 x 10E10 copies/µl The product is stable.
Alien Primer Mix The product is stable.

Possibility of hazardous reactions : Alien RNA Transcript 3 x 10E10 copies/µl Under normal conditions of storage and use, hazardous reactions will not occur.
Alien Primer Mix Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Alien RNA Transcript 3 x 10E10 copies/µl No specific data.
Alien Primer Mix No specific data.

Incompatible materials : Alien RNA Transcript 3 x 10E10 copies/µl May react or be incompatible with oxidizing materials.
Alien Primer Mix May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: Alien RNA Transcript 3 x 10E10 copies/μl	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: Alien Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Alien RNA Transcript 3 x 10E10 copies/μl Not available.

Alien Primer Mix Not available.

Potential acute health effects

Eye contact : Alien RNA Transcript 3 x 10E10 copies/μl No known significant effects or critical hazards.

Alien Primer Mix No known significant effects or critical hazards.

Inhalation : Alien RNA Transcript 3 x 10E10 copies/μl No known significant effects or critical hazards.

Alien Primer Mix 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 Primer Mix No known significant effects or critical hazards.

Ingestion : Alien RNA Transcript 3 x 10E10 copies/μl No known significant effects or critical hazards.

Alien Primer Mix No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Primer Mix	No specific data.
Inhalation	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Primer Mix	No specific data.
Skin contact	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Primer Mix	No specific data.
Ingestion	: Alien RNA Transcript 3 x 10E10 copies/µl	No specific data.
	Alien Primer Mix	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	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	Alien Primer Mix	No known significant effects or critical hazards.
Carcinogenicity	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	Alien Primer Mix	No known significant effects or critical hazards.
Mutagenicity	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	Alien Primer Mix	No known significant effects or critical hazards.
Reproductive toxicity	: Alien RNA Transcript 3 x 10E10 copies/µl	No known significant effects or critical hazards.
	Alien Primer Mix	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Section 12. Ecological information

Not available.

Mobility in soil

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

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

Section 13. Disposal considerations

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Section 15. Regulatory information

Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
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	: <input checked="" type="checkbox"/> All components are active or exempted.
Viet Nam	: <input checked="" type="checkbox"/> All components are listed or exempted.

Section 16. Other information

History

Date of issue/Date of revision	: 05/16/2022
Date of previous issue	: 09/25/2019
Version	: 6

Key to abbreviations

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: HPR = Hazardous Products Regulations
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: N/A = Not available
: UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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