

SAFETY DATA SHEET



Agilent NGS FFPE QC Kit, 96 Reactions, Part Number G9700B

Section 1. Identification

1.1 Product identifier

Product name : Agilent NGS FFPE QC Kit, 96 Reactions, Part Number G9700B
Part No. (Chemical Kit) : G9700B
Part No. :
 Primer Set A, 42 bp 5190-9352
 Primer Set B, 123 bp 5190-9353
 DNA Standard 1 5190-9354
 DNA Standard 2 5190-9355
 DNA Standard 3 5190-9356
 DNA Standard 4 5190-9357
 DNA Standard 5 5190-9358
 Reference DNA 5190-9359
 2X Brilliant III SYBR® Green QPCR Master Mix 600882-51
 Reference Dye 600530-53

Validation date : 6/10/2015.

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

Material uses : Analytical chemistry.
 Primer Set A, 42 bp 0.66 ml
 Primer Set B, 123 bp 0.45 ml
 DNA Standard 1 0.18 ml
 DNA Standard 2 0.18 ml
 DNA Standard 3 0.18 ml
 DNA Standard 4 0.18 ml
 DNA Standard 5 0.18 ml
 Reference DNA 0.36 ml
 2X Brilliant III SYBR® Green QPCR Master Mix 10 ml (2 ml x 5 vials)
 Reference Dye 0.1 ml

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

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Primer Set A, 42 bp 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.
 Primer Set B, 123 bp While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.

Section 2. Hazards identification

	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.
DNA Standard 1	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.
DNA Standard 2	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.
DNA Standard 3	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.
DNA Standard 4	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.
DNA Standard 5	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.
Reference DNA	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.
2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). 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.

Classification of the substance or mixture

**2X Brilliant III SYBR® Green
QPCR Master Mix**
H320

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

2.2 GHS label elements

Section 2. Hazards identification

Signal word	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. Warning No signal word.
Hazard statements	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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. H320 - Causes eye irritation. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. Not applicable.
Response	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. Not applicable.
Storage	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Section 2. Hazards identification

Disposal	QPCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
	: Primer Set A, 42 bp	Not applicable.
	Primer Set B, 123 bp	Not applicable.
	DNA Standard 1	Not applicable.
	DNA Standard 2	Not applicable.
	DNA Standard 3	Not applicable.
	DNA Standard 4	Not applicable.
	DNA Standard 5	Not applicable.
	Reference DNA	Not applicable.
2X Brilliant III SYBR® Green	Not applicable.	
QPCR Master Mix	Not applicable.	
Reference Dye	Not applicable.	

2.3 Other hazards

Hazards not otherwise classified	: Primer Set A, 42 bp	None known.
	Primer Set B, 123 bp	None known.
	DNA Standard 1	None known.
	DNA Standard 2	None known.
	DNA Standard 3	None known.
	DNA Standard 4	None known.
	DNA Standard 5	None known.
	Reference DNA	None known.
	2X Brilliant III SYBR® Green	None known.
	QPCR Master Mix	None known.
Reference Dye	None known.	

Section 3. Composition/information on ingredients

Substance/mixture	: Primer Set A, 42 bp	Mixture
	Primer Set B, 123 bp	Mixture
	DNA Standard 1	Mixture
	DNA Standard 2	Mixture
	DNA Standard 3	Mixture
	DNA Standard 4	Mixture
	DNA Standard 5	Mixture
	Reference DNA	Mixture
	2X Brilliant III SYBR® Green QPCR	Mixture
	Master Mix	Mixture
Reference Dye	Mixture	

Ingredient name	%	CAS number
2X Brilliant III SYBR® Green QPCR Master Mix		
Glycerol	10 - 30	56-81-5
Dimethyl sulfoxide	5 - 10	67-68-5
Potassium chloride	1 - 5	7447-40-7

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact

: Primer Set A, 42 bp

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.

Primer Set B, 123 bp

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.

DNA Standard 1

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.

DNA Standard 2

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.

DNA Standard 3

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.

DNA Standard 4

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.

DNA Standard 5

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.

Reference DNA

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.

2X Brilliant III SYBR® Green
QPCR Master Mix

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Reference Dye

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

: Primer Set A, 42 bp

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

Primer Set B, 123 bp

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

DNA Standard 1

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

DNA Standard 2

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

DNA Standard 3

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

DNA Standard 4

Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

	DNA Standard 5	position comfortable for breathing. Get medical attention if symptoms occur.
	Reference DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	2X Brilliant III SYBR® Green QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Primer Set A, 42 bp	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Primer Set B, 123 bp	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 5	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Reference DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	2X Brilliant III SYBR® Green QPCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 1	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.
	DNA Standard 2	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.
	DNA Standard 3	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.
	DNA Standard 4	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.
	DNA Standard 5	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.
	Reference DNA	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.
	2X Brilliant III SYBR® Green QPCR Master Mix	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has

Section 4. First aid measures

Reference Dye

been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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. Causes eye irritation.
Inhalation	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
Skin contact	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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Ingestion	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Over-exposure signs/symptoms

Eye contact	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
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Inhalation	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
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Skin contact	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
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Ingestion	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix	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.
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Section 4. First aid measures

Reference Dye

No specific data.

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

Notes to physician

: Primer Set A, 42 bp	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Primer Set B, 123 bp	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
DNA Standard 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
DNA Standard 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
DNA Standard 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
DNA Standard 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
DNA Standard 5	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Reference DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
2X Brilliant III SYBR® Green QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Reference Dye	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: Primer Set A, 42 bp	No specific treatment.
Primer Set B, 123 bp	No specific treatment.
DNA Standard 1	No specific treatment.
DNA Standard 2	No specific treatment.
DNA Standard 3	No specific treatment.
DNA Standard 4	No specific treatment.
DNA Standard 5	No specific treatment.
Reference DNA	No specific treatment.
2X Brilliant III SYBR® Green QPCR Master Mix	No specific treatment.
Reference Dye	No specific treatment.

Protection of first-aiders

: Primer Set A, 42 bp	No action shall be taken involving any personal risk or without suitable training.
Primer Set B, 123 bp	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 1	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 2	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 3	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 4	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 5	No action shall be taken involving any personal risk

Section 4. First aid measures

Reference DNA	or without suitable training. No action shall be taken involving any personal risk or without suitable training.
2X Brilliant III SYBR® Green QPCR Master Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Reference Dye	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	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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. 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.
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Unsuitable extinguishing media	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	None known. None known. None known. None known. None known. None known. None known. 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	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3	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. In a fire or if heated, a pressure increase will occur and the container may burst.
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Section 5. Fire-fighting measures

	DNA Standard 4	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 5	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
	Reference Dye	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

	: Primer Set A, 42 bp	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.
	Primer Set B, 123 bp	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.
	DNA Standard 1	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.
	DNA Standard 2	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.
	DNA Standard 3	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.
	DNA Standard 4	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.
	DNA Standard 5	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.
	Reference DNA	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

2X Brilliant III SYBR® Green
QPCR Master Mix

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.

Reference Dye

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.

: Primer Set A, 42 bp

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

Primer Set B, 123 bp

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

DNA Standard 1

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

DNA Standard 2

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

DNA Standard 3

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

DNA Standard 4

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

DNA Standard 5

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

Reference DNA

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

2X Brilliant III SYBR® Green
QPCR Master Mix

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

Reference Dye

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

: Primer Set A, 42 bp

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.

Primer Set B, 123 bp

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.

DNA Standard 1

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.

DNA Standard 2

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.

DNA Standard 3

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.

DNA Standard 4

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.

DNA Standard 5

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.

Reference DNA

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.

2X Brilliant III SYBR® Green
QPCR Master 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

Reference Dye	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 : Primer Set A, 42 bp	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".
Primer Set B, 123 bp	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".
DNA Standard 1	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".
DNA Standard 2	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".
DNA Standard 3	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".
DNA Standard 4	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".
DNA Standard 5	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".
Reference DNA	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".
2X Brilliant III SYBR® Green QPCR Master Mix	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".
Reference Dye	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 : Primer Set A, 42 bp	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).
Primer Set B, 123 bp	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).
DNA Standard 1	Avoid dispersal of spilled material and runoff and

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	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
DNA Standard 2	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).
DNA Standard 3	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).
DNA Standard 4	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).
DNA Standard 5	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).
Reference DNA	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).
2X Brilliant III SYBR® Green QPCR Master 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).
Reference Dye	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

Primer Set A, 42 bp	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.
Primer Set B, 123 bp	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.
DNA Standard 1	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.
DNA Standard 2	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.
DNA Standard 3	Stop leak if without risk. Move containers from spill area. Dilute with

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DNA Standard 4	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. 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.
DNA Standard 5	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. 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.
Reference DNA	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. 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.
2X Brilliant III SYBR® Green QPCR Master Mix	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. 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.
Reference Dye	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. 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	<ul style="list-style-type: none"> : Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye 	<ul style="list-style-type: none"> Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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.	

Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: Primer Set A, 42 bp

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.

Primer Set B, 123 bp

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.

DNA Standard 1

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.

DNA Standard 2

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.

DNA Standard 3

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.

DNA Standard 4

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

Section 7. Handling and storage

	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.
DNA Standard 5	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.
Reference DNA	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.
2X Brilliant III SYBR® Green QPCR Master 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.
Reference Dye	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.

[7.3 Specific end use\(s\)](#)

Section 7. Handling and storage

Recommendations	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Not applicable.	

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2X Brilliant III SYBR® Green QPCR Master Mix	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
Glycerol	TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
Dimethyl sulfoxide	TWA: 15 mg/m ³ 8 hours. Form: Total dust AIHA WEEL (United States, 10/2011). TWA: 250 ppm 8 hours.

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

Section 8. Exposure controls/personal 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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Primer Set A, 42 bp	Liquid.
	Primer Set B, 123 bp	Liquid.
	DNA Standard 1	Liquid.
	DNA Standard 2	Liquid.
	DNA Standard 3	Liquid.
	DNA Standard 4	Liquid.
	DNA Standard 5	Liquid.
	Reference DNA	Liquid.
	2X Brilliant III SYBR® Green	Liquid.
	QPCR Master Mix	
	Reference Dye	Liquid.
Color	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green	Not available.
	QPCR Master Mix	
	Reference Dye	Not available.
Odor	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green	Not available.
	QPCR Master Mix	
	Reference Dye	Not available.

Section 9. Physical and chemical properties

Odor threshold	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	Not available.
pH	:	Primer Set A, 42 bp	7.8
		Primer Set B, 123 bp	7.8
		DNA Standard 1	7.8
		DNA Standard 2	7.8
		DNA Standard 3	7.8
		DNA Standard 4	7.8
		DNA Standard 5	7.8
		Reference DNA	7.8
		2X Brilliant III SYBR® Green	7.8
		QPCR Master Mix	8
Melting point	:	Primer Set A, 42 bp	0°C (32°F)
		Primer Set B, 123 bp	0°C (32°F)
		DNA Standard 1	0°C (32°F)
		DNA Standard 2	0°C (32°F)
		DNA Standard 3	0°C (32°F)
		DNA Standard 4	0°C (32°F)
		DNA Standard 5	0°C (32°F)
		Reference DNA	0°C (32°F)
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	0°C (32°F)
Boiling point	:	Primer Set A, 42 bp	100°C (212°F)
		Primer Set B, 123 bp	100°C (212°F)
		DNA Standard 1	100°C (212°F)
		DNA Standard 2	100°C (212°F)
		DNA Standard 3	100°C (212°F)
		DNA Standard 4	100°C (212°F)
		DNA Standard 5	100°C (212°F)
		Reference DNA	100°C (212°F)
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	100°C (212°F)
Flash point	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	Not available.
	Reference Dye	Not available.	

Section 9. Physical and chemical properties

Evaporation rate	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	
	Reference Dye	Not available.	
Flammability (solid, gas)	:	Primer Set A, 42 bp	Not applicable.
		Primer Set B, 123 bp	Not applicable.
		DNA Standard 1	Not applicable.
		DNA Standard 2	Not applicable.
		DNA Standard 3	Not applicable.
		DNA Standard 4	Not applicable.
		DNA Standard 5	Not applicable.
		Reference DNA	Not applicable.
		2X Brilliant III SYBR® Green	Not applicable.
		QPCR Master Mix	
	Reference Dye	Not applicable.	
Lower and upper explosive (flammable) limits	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	
	Reference Dye	Not available.	
Vapor pressure	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	
	Reference Dye	Not available.	
Vapor density	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	
	Reference Dye	Not available.	

Section 9. Physical and chemical properties

Relative density	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green	Not available.
	QPCR Master Mix	Not available.
Solubility	Reference Dye	Not available.
	: Primer Set A, 42 bp	Easily soluble in the following materials: cold water and hot water.
	Primer Set B, 123 bp	Easily soluble in the following materials: cold water and hot water.
	DNA Standard 1	Easily soluble in the following materials: cold water and hot water.
	DNA Standard 2	Easily soluble in the following materials: cold water and hot water.
	DNA Standard 3	Easily soluble in the following materials: cold water and hot water.
	DNA Standard 4	Easily soluble in the following materials: cold water and hot water.
	DNA Standard 5	Easily soluble in the following materials: cold water and hot water.
	Reference DNA	Easily soluble in the following materials: cold water and hot water.
	2X Brilliant III SYBR® Green	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	QPCR Master Mix	Easily soluble in the following materials: cold water and hot water.
	Reference Dye	Easily soluble in the following materials: cold water and hot water.
	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
	Reference DNA	Not available.
Auto-ignition temperature	2X Brilliant III SYBR® Green	Not available.
	QPCR Master Mix	Not available.
	Reference Dye	Not available.
	: Primer Set A, 42 bp	Not available.
	Primer Set B, 123 bp	Not available.
	DNA Standard 1	Not available.
	DNA Standard 2	Not available.
	DNA Standard 3	Not available.
	DNA Standard 4	Not available.
	DNA Standard 5	Not available.
Reference DNA	Not available.	
2X Brilliant III SYBR® Green	Not available.	
QPCR Master Mix	Not available.	
Reference Dye	Not available.	

Section 9. Physical and chemical properties

Decomposition temperature	: Primer Set A, 42 bp	Not available.	
	Primer Set B, 123 bp	Not available.	
	DNA Standard 1	Not available.	
	DNA Standard 2	Not available.	
	DNA Standard 3	Not available.	
	DNA Standard 4	Not available.	
	DNA Standard 5	Not available.	
	Reference DNA	Not available.	
	2X Brilliant III SYBR® Green	Not available.	
	QPCR Master Mix		
	Reference Dye	Not available.	
	Viscosity	: Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
DNA Standard 1		Not available.	
DNA Standard 2		Not available.	
DNA Standard 3		Not available.	
DNA Standard 4		Not available.	
DNA Standard 5		Not available.	
Reference DNA		Not available.	
2X Brilliant III SYBR® Green		Not available.	
QPCR Master Mix			
Reference Dye		Not available.	

Section 10. Stability and reactivity

10.1 Reactivity	: Primer Set A, 42 bp	No specific test data related to reactivity available for this product or its ingredients.
	Primer Set B, 123 bp	No specific test data related to reactivity available for this product or its ingredients.
	DNA Standard 1	No specific test data related to reactivity available for this product or its ingredients.
	DNA Standard 2	No specific test data related to reactivity available for this product or its ingredients.
	DNA Standard 3	No specific test data related to reactivity available for this product or its ingredients.
	DNA Standard 4	No specific test data related to reactivity available for this product or its ingredients.
	DNA Standard 5	No specific test data related to reactivity available for this product or its ingredients.
	Reference DNA	No specific test data related to reactivity available for this product or its ingredients.
	2X Brilliant III SYBR® Green	No specific test data related to reactivity available for this product or its ingredients.
	QPCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	Reference Dye	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Primer Set A, 42 bp	The product is stable.
	Primer Set B, 123 bp	The product is stable.
	DNA Standard 1	The product is stable.
	DNA Standard 2	The product is stable.
	DNA Standard 3	The product is stable.
	DNA Standard 4	The product is stable.
	DNA Standard 5	The product is stable.
	Reference DNA	The product is stable.
	2X Brilliant III SYBR® Green	The product is stable.
	QPCR Master Mix	
	Reference Dye	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
10.5 Incompatible materials	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

10.6 Hazardous decomposition products	: Primer Set A, 42 bp	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Primer Set B, 123 bp	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Standard 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Standard 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Standard 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Standard 4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Standard 5	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference DNA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	2X Brilliant III SYBR® Green QPCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference Dye	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

Product/ingredient name	Result	Species	Dose	Exposure
2X Brilliant III SYBR® Green QPCR Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2X Brilliant III SYBR® Green QPCR Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100	-

Section 11. Toxicological information

Potassium chloride	Eyes - Mild irritant	Rabbit	-	milligrams 24 hours 500 milligrams	-
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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

: Primer Set A, 42 bp
Primer Set B, 123 bp
DNA Standard 1
DNA Standard 2
DNA Standard 3
DNA Standard 4
DNA Standard 5
Reference DNA
2X Brilliant III SYBR® Green
QPCR Master Mix
Reference Dye

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

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

: Primer Set A, 42 bp
Primer Set B, 123 bp
DNA Standard 1
DNA Standard 2
DNA Standard 3
DNA Standard 4
DNA Standard 5
Reference DNA
2X Brilliant III SYBR® Green
QPCR Master Mix
Reference Dye

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.
Causes eye irritation.

No known significant effects or critical hazards.

Section 11. Toxicological information

Inhalation	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
Skin contact	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
Ingestion	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness No specific data.
Inhalation	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix	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.

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Skin contact	Reference Dye	No specific data.
	: Primer Set A, 42 bp	No specific data.
	Primer Set B, 123 bp	No specific data.
	DNA Standard 1	No specific data.
	DNA Standard 2	No specific data.
	DNA Standard 3	No specific data.
	DNA Standard 4	No specific data.
	DNA Standard 5	No specific data.
	Reference DNA	No specific data.
	2X Brilliant III SYBR® Green QPCR Master Mix	No specific data.
Ingestion	Reference Dye	No specific data.
	: Primer Set A, 42 bp	No specific data.
	Primer Set B, 123 bp	No specific data.
	DNA Standard 1	No specific data.
	DNA Standard 2	No specific data.
	DNA Standard 3	No specific data.
	DNA Standard 4	No specific data.
	DNA Standard 5	No specific data.
	Reference DNA	No specific data.
	2X Brilliant III SYBR® Green QPCR Master Mix	No specific data.
	Reference Dye	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	: Primer Set A, 42 bp	No known significant effects or critical hazards.	
	Primer Set B, 123 bp	No known significant effects or critical hazards.	
	DNA Standard 1	No known significant effects or critical hazards.	
	DNA Standard 2	No known significant effects or critical hazards.	
	DNA Standard 3	No known significant effects or critical hazards.	
	DNA Standard 4	No known significant effects or critical hazards.	
	DNA Standard 5	No known significant effects or critical hazards.	
	Reference DNA	No known significant effects or critical hazards.	
	2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards.	
	Reference Dye	No known significant effects or critical hazards.	
	Carcinogenicity	: Primer Set A, 42 bp	No known significant effects or critical hazards.
		Primer Set B, 123 bp	No known significant effects or critical hazards.
		DNA Standard 1	No known significant effects or critical hazards.
DNA Standard 2		No known significant effects or critical hazards.	
DNA Standard 3		No known significant effects or critical hazards.	
DNA Standard 4		No known significant effects or critical hazards.	
DNA Standard 5		No known significant effects or critical hazards.	
Reference DNA		No known significant effects or critical hazards.	
2X Brilliant III SYBR® Green QPCR Master Mix	No known significant effects or critical hazards.		
Reference Dye	No known significant effects or critical hazards.		

Section 11. Toxicological information

Mutagenicity	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
Teratogenicity	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
Developmental effects	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.
Fertility effects	: Primer Set A, 42 bp Primer Set B, 123 bp DNA Standard 1 DNA Standard 2 DNA Standard 3 DNA Standard 4 DNA Standard 5 Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
2X Brilliant III SYBR® Green QPCR Master Mix Oral	183001.9 mg/kg

Section 11. Toxicological information

Other information	:	Primer Set A, 42 bp	Not available.
		Primer Set B, 123 bp	Not available.
		DNA Standard 1	Not available.
		DNA Standard 2	Not available.
		DNA Standard 3	Not available.
		DNA Standard 4	Not available.
		DNA Standard 5	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR® Green	Not available.
		QPCR Master Mix	
		Reference Dye	Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2X Brilliant III SYBR® Green QPCR Master Mix Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Potassium chloride	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 880000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2X Brilliant III SYBR® Green QPCR Master Mix			
Glycerol	-1.76	-	low
Dimethyl sulfoxide	-1.35	3.16	low

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

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.

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

Regulatory information

DOT / IMDG / IATA : Not regulated.

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) PAIR**: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-

United States inventory (TSCA 8b): At least one component is not listed.

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 : Not applicable.

Section 15. Regulatory information

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2X Brilliant III SYBR® Green QPCR Master Mix						
Glycerol	10 - 30	No.	No.	No.	Yes.	No.
Dimethyl sulfoxide	5 - 10	Yes.	No.	No.	Yes.	No.
Potassium chloride	1 - 5	No.	No.	No.	Yes.	No.

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

No products were found.

- Canada inventory** : All components are listed or exempted.

International regulations

- International lists** :
- Australia inventory (AICS)**: All components are listed or exempted.
 - China inventory (IECSC)**: Not determined.
 - Japan inventory**: All components are listed or exempted.
 - Korea inventory**: Not determined.
 - Malaysia Inventory (EHS Register)**: All components are listed or exempted.
 - New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted.
 - Philippines inventory (PICCS)**: Not determined.
 - Taiwan inventory (CSNN)**: Not determined.

- Chemical Weapons Convention List Schedule I Chemicals** : Not listed

- Chemical Weapons Convention List Schedule II Chemicals** : Not listed

- Chemical Weapons Convention List Schedule III Chemicals** : Not listed

Section 16. Other information

History

- Date of issue** : 6/10/2015.
- Date of previous issue** : No previous validation.
- Version** : 1

✔ Indicates information that has changed from previously issued version.

Notice to reader

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