

Material Safety Data Sheet



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

1. Identification of the material and supplier

Names

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 600882-51
 Master Mix
 Reference Dye 600530-53

ADG : Not regulated as Dangerous Goods according to the ADG Code

Supplier

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

Emergency telephone number : CHEMTREC®: +(61)-290372994

Uses

Area of application : Primer Set A, 42 bp Industrial applications, Professional applications.
 Primer Set B, 123 bp Industrial applications, Professional applications.
 DNA Standard 1 Industrial applications, Professional applications.
 DNA Standard 2 Industrial applications, Professional applications.
 DNA Standard 3 Industrial applications, Professional applications.
 DNA Standard 4 Industrial applications, Professional applications.
 DNA Standard 5 Industrial applications, Professional applications.
 Reference DNA Industrial applications, Professional applications.
 2X Brilliant III SYBR® Green QPCR Industrial applications, Professional applications.
 Master Mix Industrial applications, Professional applications.
 Reference Dye Industrial applications, Professional applications.

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 10 ml (2 ml x 5 vials)
 QPCR Master Mix
 Reference Dye 0.1 ml

2 . Hazards identification

Classification	: 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 regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.
Risk phrases	: 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 classified. Not classified. Not classified. Not classified. Not classified. Not classified. Not classified. Not classified. Not classified. Not classified. Not classified.
Safety phrases	: 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	S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing. S36- Wear suitable protective clothing.
Statement of hazardous/ dangerous nature	: 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	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3 . Composition/information on ingredients

Mixture	: 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	Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes.
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3 . Composition/information on ingredients

2X Brilliant III SYBR® Yes.
 Green QPCR Master Mix
 Reference Dye Yes.

Ingredient name	CAS number	%
2X Brilliant III SYBR® Green QPCR Master Mix Glycerol	56-81-5	10 - <30

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

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.

4 . First-aid measures

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 position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 5	Remove victim to fresh air and keep at rest in a 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. Get medical attention if symptoms occur.
	Reference Dye	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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

4 . First-aid measures

		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 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 Dye	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.
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.

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	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.
	Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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. Get medical attention if irritation occurs.
	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.
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 or without suitable training.
	Reference DNA	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.
	Reference Dye	No action shall be taken involving any personal risk or

4 . First-aid measures

Advice to doctor	:	Primer Set A, 42 bp	without suitable training. No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Primer Set B, 123 bp	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 1	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 2	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 3	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 4	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 5	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Reference DNA	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		2X Brilliant III SYBR® Green QPCR Master Mix	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Reference Dye	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Extinguishing media

Suitable	:	Primer Set A, 42 bp	Use an extinguishing agent suitable for the surrounding fire.
		Primer Set B, 123 bp	Use an extinguishing agent suitable for the surrounding fire.
		DNA Standard 1	Use an extinguishing agent suitable for the surrounding fire.
		DNA Standard 2	Use an extinguishing agent suitable for the surrounding fire.
		DNA Standard 3	Use an extinguishing agent suitable for the surrounding fire.
		DNA Standard 4	Use an extinguishing agent suitable for the surrounding fire.
		DNA Standard 5	Use an extinguishing agent suitable for the surrounding fire.
		Reference DNA	Use an extinguishing agent suitable for the surrounding fire.
		2X Brilliant III SYBR® Green QPCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
		Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	:	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®	None known.	

5 . Fire-fighting measures

	Green QPCR Master Mix	None known.
	Reference Dye	
Special exposure hazards	: 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 action shall be taken involving any personal risk or without suitable training.
	2X Brilliant III SYBR® Green QPCR Master 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.
	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	In a fire or if heated, a pressure increase will occur and the container may burst.
	Primer Set B, 123 bp	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	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	In a fire or if heated, a pressure increase will occur and the container may burst.
	Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.

5 . Fire-fighting measures

Hazardous thermal decomposition products	:	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®	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
		Green QPCR Master Mix	
	Reference Dye	No specific data.	
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6 . Accidental release measures

Personal precautions	:	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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		Reference DNA	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

6 . Accidental release measures

		Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
	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 spilt material. Put on appropriate personal protective equipment (see Section 8).
	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 spilt material. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Primer Set A, 42 bp	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Primer Set B, 123 bp	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 3	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 4	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DNA Standard 5	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Reference DNA	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	2X Brilliant III SYBR® Green QPCR Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Reference Dye	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for 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.

6 . Accidental release measures

	Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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 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 4	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	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	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	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	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.

7 . Handling and storage

Handling	: Primer Set A, 42 bp	Put on appropriate personal protective equipment (see Section 8). 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.
	Primer Set B, 123 bp	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored

7 . Handling and storage

	and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
DNA Standard 1	Put on appropriate personal protective equipment (see Section 8). 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.
DNA Standard 2	Put on appropriate personal protective equipment (see Section 8). 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.
DNA Standard 3	Put on appropriate personal protective equipment (see Section 8). 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.
DNA Standard 4	Put on appropriate personal protective equipment (see Section 8). 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.
DNA Standard 5	Put on appropriate personal protective equipment (see Section 8). 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.
Reference DNA	Put on appropriate personal protective equipment (see Section 8). 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.
2X Brilliant III SYBR® Green QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8). 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.
Reference Dye	Put on appropriate personal protective equipment (see Section 8). 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.

7 . Handling and storage

Storage	: 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 unlabelled 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 unlabelled 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 unlabelled 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 unlabelled 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 unlabelled 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 and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	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 unlabelled 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,

7 . Handling and storage

2X Brilliant III SYBR®
Green QPCR Master Mix

Reference Dye

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

8 . Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
2X Brilliant III SYBR® Green QPCR Master Mix Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.

No additional exposure standard allocated for other ingredients/components covered by the MSDS other than those listed in the table above.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.
- Eyes** : 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 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.
- Hands** : 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.
- Respiratory** : 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.

8 . Exposure controls/personal protection

- Skin** : 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.
- 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.

9 . Physical and chemical properties

- | | | | |
|------------------------|---|------------------------|----------------|
| 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® | Liquid. |
| | | Green QPCR Master Mix | |
| | | Reference Dye | Liquid. |
| Colour | : | 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® | Not available. |
| | | Green QPCR Master Mix | |
| | | Reference Dye | Not available. |
| Odour | : | 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® | Not available. |
| | | Green QPCR Master Mix | |
| | | Reference Dye | Not available. |
| Odour 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® | Not available. |
| | | Green QPCR Master Mix | |
| | | Reference Dye | Not available. |
| 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® | Not available. |

9 . Physical and chemical properties

	Green QPCR Master Mix	
	Reference Dye	100°C (212°F)
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®	Not available.
	Green QPCR Master Mix	
	Reference Dye	0°C (32°F)
Vapour 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®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
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®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
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®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
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®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

9 . Physical and chemical properties

Vapour 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®	Not available.
		Green QPCR Master Mix	
		Reference Dye	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®	7.8
		Green QPCR Master Mix	
		Reference Dye	8
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®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
Auto-ignition 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®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
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®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
Solubility	:	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.

9 . Physical and chemical properties

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 QPCR Master Mix	Soluble in the following materials: cold water and hot water.
Reference Dye	Easily soluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Chemical stability	: 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	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
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.
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.
Materials 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	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

10 . Stability and reactivity

	Reference DNA	No specific data.
	2X Brilliant III SYBR®	No specific data.
	Green QPCR Master Mix	
	Reference Dye	No specific data.
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®	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	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.	

11 . Toxicological information

Potential acute health effects

Inhalation	: 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®	No known significant effects or critical hazards.
	Green QPCR Master Mix	
Ingestion	: 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®	No known significant effects or critical hazards.
	Green QPCR Master Mix	
Skin contact	: 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®	No known significant effects or critical hazards.
	Green QPCR Master Mix	
Reference Dye	No known significant effects or critical hazards.	

11 . Toxicological information

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

Product/ingredient name	Result	Species	Dose	Exposure
2X Brilliant III SYBR® Green QPCR Master Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

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	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Chronic 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. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: 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.

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. 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. 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. No known significant effects or critical hazards.
<u>Over-exposure signs/symptoms</u>		
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.
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	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

11 . Toxicological information

	2X Brilliant III SYBR®	No specific data.
	Green QPCR Master Mix	
	Reference Dye	No specific data.
Skin	: 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®	No specific data.
	Green QPCR Master Mix	
	Reference Dye	No specific data.
Eyes	: 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®	No specific data.
	Green QPCR Master Mix	
	Reference Dye	No specific data.
Other adverse symptoms	: 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®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
Target organs	: 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®	Contains material which may cause damage to the
	Green QPCR Master Mix	following organs: kidneys, liver, gastrointestinal tract,
		upper respiratory tract, skin, eye, lens or cornea.
	Reference Dye	Not available.

12 . Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Other ecological information

Bioaccumulative potential

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

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

13 . Disposal considerations

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

14 . Transport information

Regulatory information

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

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

6

Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

Australia inventory (AICS) : All components are listed or exempted.

16 . Other information

Date of issue : 10/06/2015

Date of previous issue : No previous validation.

✔ Indicates information that has changed from previously issued version.

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