

SAFETY DATA SHEET



Agilent NGS FFPE QC Kit, EA, 16 Reactions, Part Number 5190-8833

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

1.1 Product identifier

Product name	: Agilent NGS FFPE QC Kit, EA, 16 Reactions, Part Number 5190-8833	
Part no. (chemical kit)	: 5190-8833	
Part no.	Primer Set A 42 bp	5190-8853
	Primer Set B 123 bp	5190-8854
	DNA Standard 1 16 Samples	5190-8855
	DNA Standard 2 16 Samples	5190-8856
	DNA Standard 3 16 Samples	5190-8857
	DNA Standard 4 16 Samples	5190-8858
	DNA Standard 5 16 Samples	5190-8859
	Reference DNA	5190-9313
	2X Brilliant III SYBR®	600882-51
	Green QPCR Master Mix	
	Reference Dye	600530-53

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

Material uses	: Analytical reagent.	
	Primer Set A 42 bp	0.09 ml (16 sample)
	Primer Set B 123 bp	0.06 ml (16 sample)
	DNA Standard 1 16 Samples	0.024 ml (2500 pg/μl)
	DNA Standard 2 16 Samples	0.024 ml (625 pg/μl)
	DNA Standard 3 16 Samples	0.024 ml (156.25 pg/μl)
	DNA Standard 4 16 Samples	0.024 ml (39.06 pg/μl)
	DNA Standard 5 16 Samples	0.024 ml (9.77 pg/μl)
	Reference DNA	0.048 ml (16 sample)
	2X Brilliant III SYBR® Green QPCR Master Mix	2.0 ml
	Reference Dye	0.1 ml (100 μl 1 mM)

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Primer Set A 42 bp	Mixture
	Primer Set B 123 bp	Mixture
	DNA Standard 1 16 Samples	Mixture
	DNA Standard 2 16 Samples	Mixture
	DNA Standard 3 16 Samples	Mixture
	DNA Standard 4 16 Samples	Mixture
	DNA Standard 5 16 Samples	Mixture
	Reference DNA	Mixture
	2X Brilliant III SYBR®	Mixture
	Green QPCR Master Mix	
	Reference Dye	Mixture

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

Not classified.

Ingredients of unknown toxicity	: 2X Brilliant III SYBR®	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
	Green QPCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
	Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
Ingredients of unknown ecotoxicity	: Reference Dye	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.4%

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

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

2.2 Label elements

Signal word	: Primer Set A 42 bp	No signal word.
	Primer Set B 123 bp	No signal word.
	DNA Standard 1 16 Samples	No signal word.
	DNA Standard 2 16 Samples	No signal word.
	DNA Standard 3 16 Samples	No signal word.
	DNA Standard 4 16 Samples	No signal word.
	DNA Standard 5 16 Samples	No signal word.
	Reference DNA	No signal word.
	2X Brilliant III SYBR®	No signal word.
	Green QPCR Master Mix	
	Reference Dye	No signal word.

SECTION 2: Hazards identification

Hazard statements	:	Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples 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.
Precautionary statements			
Prevention	:	Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples 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. Not applicable. Not applicable.
Response	:	Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples 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. Not applicable. Not applicable.
Storage	:	Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

SECTION 2: Hazards identification

	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.
Disposal	: Primer Set A 42 bp	Not applicable.
	Primer Set B 123 bp	Not applicable.
	DNA Standard 1 16 Samples	Not applicable.
	DNA Standard 2 16 Samples	Not applicable.
	DNA Standard 3 16 Samples	Not applicable.
	DNA Standard 4 16 Samples	Not applicable.
	DNA Standard 5 16 Samples	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.
Hazardous ingredients	: Reference Dye	Not applicable.
Supplemental label elements	: Primer Set A 42 bp	Not applicable.
	Primer Set B 123 bp	Not applicable.
	DNA Standard 1 16 Samples	Not applicable.
	DNA Standard 2 16 Samples	Not applicable.
	DNA Standard 3 16 Samples	Not applicable.
	DNA Standard 4 16 Samples	Not applicable.
	DNA Standard 5 16 Samples	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Primer Set A 42 bp	Not applicable.
	Primer Set B 123 bp	Not applicable.
	DNA Standard 1 16 Samples	Not applicable.
	DNA Standard 2 16 Samples	Not applicable.
	DNA Standard 3 16 Samples	Not applicable.
	DNA Standard 4 16 Samples	Not applicable.
	DNA Standard 5 16 Samples	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR®	Not applicable.
	Green QPCR Master Mix	
	Reference Dye	Not applicable.
Special packaging requirements		

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SECTION 2: Hazards identification

Tactile warning of danger	:	Primer Set A 42 bp	Not applicable.
		Primer Set B 123 bp	Not applicable.
		DNA Standard 1 16 Samples	Not applicable.
		DNA Standard 2 16 Samples	Not applicable.
		DNA Standard 3 16 Samples	Not applicable.
		DNA Standard 4 16 Samples	Not applicable.
		DNA Standard 5 16 Samples	Not applicable.
		Reference DNA	Not applicable.
		2X Brilliant III SYBR®	Not applicable.
		Green QPCR Master Mix	
		Reference Dye	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	:	Primer Set A 42 bp	None known.
		Primer Set B 123 bp	None known.
		DNA Standard 1 16 Samples	None known.
		DNA Standard 2 16 Samples	None known.
		DNA Standard 3 16 Samples	None known.
		DNA Standard 4 16 Samples	None known.
		DNA Standard 5 16 Samples	None known.
		Reference DNA	None known.
		2X Brilliant III SYBR®	None known.
		Green QPCR Master Mix	
		Reference Dye	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	Primer Set A 42 bp	Mixture
		Primer Set B 123 bp	Mixture
		DNA Standard 1 16 Samples	Mixture
		DNA Standard 2 16 Samples	Mixture
		DNA Standard 3 16 Samples	Mixture
		DNA Standard 4 16 Samples	Mixture
		DNA Standard 5 16 Samples	Mixture
		Reference DNA	Mixture
		2X Brilliant III SYBR® Green	Mixture
		QPCR Master Mix	
		Reference Dye	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
2X Brilliant III SYBR® Green QPCR Master Mix Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Reference Dye 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]

Date of issue/Date of revision : 21/08/2018

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SECTION 3: Composition/information on ingredients

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

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of 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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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.
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 16 Samples	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 2 16 Samples	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 3 16 Samples	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Standard 4 16 Samples	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

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	DNA Standard 5 16 Samples	symptoms occur. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 16 Samples	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 2 16 Samples	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 3 16 Samples	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 4 16 Samples	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Standard 5 16 Samples	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.
	Reference Dye	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. 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 16 Samples	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

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DNA Standard 2 16 Samples	conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. 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 16 Samples	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 16 Samples	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 16 Samples	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.
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 16 Samples	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 2 16 Samples	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 3 16 Samples	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 4 16 Samples	No action shall be taken involving any personal risk or without suitable training.
DNA Standard 5 16 Samples	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®	No action shall be taken involving any personal risk or

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Green QPCR Master Mix	without suitable training.
Reference Dye	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye 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 16 Samples	No known significant effects or critical hazards.
		DNA Standard 2 16 Samples	No known significant effects or critical hazards.
		DNA Standard 3 16 Samples	No known significant effects or critical hazards.
		DNA Standard 4 16 Samples	No known significant effects or critical hazards.
		DNA Standard 5 16 Samples	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	No known significant effects or critical hazards.
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 16 Samples	No known significant effects or critical hazards.
		DNA Standard 2 16 Samples	No known significant effects or critical hazards.
		DNA Standard 3 16 Samples	No known significant effects or critical hazards.
		DNA Standard 4 16 Samples	No known significant effects or critical hazards.
		DNA Standard 5 16 Samples	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	No known significant effects or critical hazards.
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 16 Samples	No known significant effects or critical hazards.
		DNA Standard 2 16 Samples	No known significant effects or critical hazards.
		DNA Standard 3 16 Samples	No known significant effects or critical hazards.
		DNA Standard 4 16 Samples	No known significant effects or critical hazards.
		DNA Standard 5 16 Samples	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	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.	

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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 16 Samples	No known significant effects or critical hazards.
		DNA Standard 2 16 Samples	No known significant effects or critical hazards.
		DNA Standard 3 16 Samples	No known significant effects or critical hazards.
		DNA Standard 4 16 Samples	No known significant effects or critical hazards.
		DNA Standard 5 16 Samples	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	No known significant effects or critical hazards.
	Reference Dye	No known significant effects or critical hazards.	

Over-exposure signs/symptoms

Eye contact	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	No specific data.
	Reference Dye	No specific data.	

Inhalation	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	No specific data.
	Reference Dye	No specific data.	

Skin contact	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	No specific data.
	Reference Dye	No specific data.	

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Ingestion	:	Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
		Reference Dye	No specific data.
		Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
		Reference Dye	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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 16 Samples	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 2 16 Samples	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 3 16 Samples	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 4 16 Samples	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA Standard 5 16 Samples	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®	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Green QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Reference Dye	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments	:	Primer Set A 42 bp	No specific treatment.
		Primer Set B 123 bp	No specific treatment.
		DNA Standard 1 16 Samples	No specific treatment.
		DNA Standard 2 16 Samples	No specific treatment.
		DNA Standard 3 16 Samples	No specific treatment.
		DNA Standard 4 16 Samples	No specific treatment.
		DNA Standard 5 16 Samples	No specific treatment.
		Reference DNA	No specific treatment.
		2X Brilliant III SYBR®	No specific treatment.
		Green QPCR Master Mix	
		Reference Dye	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 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 16 Samples	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 2 16 Samples	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 3 16 Samples	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 4 16 Samples	Use an extinguishing agent suitable for the surrounding fire.
	DNA Standard 5 16 Samples	Use an extinguishing agent suitable for the surrounding fire.
	Reference DNA	Use an extinguishing agent suitable for the surrounding fire.
	2X Brilliant III SYBR®	Use an extinguishing agent suitable for the surrounding fire.
	Green QPCR Master Mix Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Primer Set A 42 bp	None known.
	Primer Set B 123 bp	None known.
	DNA Standard 1 16 Samples	None known.
	DNA Standard 2 16 Samples	None known.
	DNA Standard 3 16 Samples	None known.
	DNA Standard 4 16 Samples	None known.
	DNA Standard 5 16 Samples	None known.
	Reference DNA	None known.
	2X Brilliant III SYBR®	None known.
	Green QPCR Master Mix Reference Dye	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: 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 16 Samples	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 2 16 Samples	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 3 16 Samples	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 4 16 Samples	In a fire or if heated, a pressure increase will occur and the container may burst.
	DNA Standard 5 16 Samples	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®	In a fire or if heated, a pressure increase will occur and the container may burst.
	Green QPCR Master Mix Reference Dye	In a fire or if heated, a pressure increase will occur and the container may burst.

SECTION 5: Firefighting measures

Hazardous combustion products	: Primer Set A 42 bp	No specific data.
	Primer Set B 123 bp	No specific data.
	DNA Standard 1 16 Samples	No specific data.
	DNA Standard 2 16 Samples	No specific data.
	DNA Standard 3 16 Samples	No specific data.
	DNA Standard 4 16 Samples	No specific data.
	DNA Standard 5 16 Samples	No specific data.
	Reference DNA	No specific data.
	2X Brilliant III SYBR® Green QPCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
	Reference Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions 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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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.	

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

: 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
DNA Standard 1 16 Samples	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
DNA Standard 2 16 Samples	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
DNA Standard 3 16 Samples	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
DNA Standard 4 16 Samples	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
DNA Standard 5 16 Samples	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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.
	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.
	DNA Standard 1 16 Samples	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.
	DNA Standard 2 16 Samples	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.
	DNA Standard 3 16 Samples	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.
	DNA Standard 4 16 Samples	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.
	DNA Standard 5 16 Samples	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.
	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 spilt 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 spilt material. Put on appropriate personal protective equipment.
	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.
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 16 Samples	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

SECTION 6: Accidental release measures

DNA Standard 2 16 Samples	unsuitable materials. See also the information in "For non-emergency personnel". 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 16 Samples	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 16 Samples	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 16 Samples	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 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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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

SECTION 6: Accidental release measures

2X Brilliant III SYBR® Green QPCR Master Mix	(sewers, waterways, soil or air). 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).

6.3 Methods and material for containment and cleaning up

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. 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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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 16 Samples	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.

SECTION 6: Accidental release measures

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Primer Set A 42 bp	Put on appropriate personal protective equipment (see Section 8).
	Primer Set B 123 bp	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 1 16 Samples	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 2 16 Samples	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 3 16 Samples	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 4 16 Samples	Put on appropriate personal protective equipment (see Section 8).
	DNA Standard 5 16 Samples	Put on appropriate personal protective equipment (see Section 8).
	Reference DNA	Put on appropriate personal protective equipment (see Section 8).
	2X Brilliant III SYBR® Green QPCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
	Reference Dye	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Primer Set A 42 bp	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.
	Primer Set B 123 bp	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.
	DNA Standard 1 16 Samples	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.
	DNA Standard 2 16 Samples	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.
	DNA Standard 3 16 Samples	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.
	DNA Standard 4 16 Samples	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

SECTION 7: Handling and storage

DNA Standard 5 16 Samples	<p>protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
Reference DNA	<p>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.</p>
2X Brilliant III SYBR® Green QPCR Master Mix	<p>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.</p>
Reference Dye	<p>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.</p>

7.2 Conditions for safe storage, including any incompatibilities

Storage	: Primer Set A 42 bp	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	Primer Set B 123 bp	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	DNA Standard 1 16 Samples	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	DNA Standard 2 16 Samples	<p>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</p>

SECTION 7: Handling and storage

	<p>Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
DNA Standard 3 16 Samples	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
DNA Standard 4 16 Samples	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
DNA Standard 5 16 Samples	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Reference DNA	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
2X Brilliant III SYBR® Green QPCR Master Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Reference Dye	<p>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</p>

SECTION 7: Handling and storage

been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

Primer Set A 42 bp	Industrial applications, Professional applications.
Primer Set B 123 bp	Industrial applications, Professional applications.
DNA Standard 1 16 Samples	Industrial applications, Professional applications.
DNA Standard 2 16 Samples	Industrial applications, Professional applications.
DNA Standard 3 16 Samples	Industrial applications, Professional applications.
DNA Standard 4 16 Samples	Industrial applications, Professional applications.
DNA Standard 5 16 Samples	Industrial applications, Professional applications.
Reference DNA	Industrial applications, Professional applications.
2X Brilliant III SYBR®	Industrial applications, Professional applications.
Green QPCR Master Mix	
Reference Dye	Industrial applications, Professional applications.

Industrial sector specific solutions

Primer Set A 42 bp	Not applicable.
Primer Set B 123 bp	Not applicable.
DNA Standard 1 16 Samples	Not applicable.
DNA Standard 2 16 Samples	Not applicable.
DNA Standard 3 16 Samples	Not applicable.
DNA Standard 4 16 Samples	Not applicable.
DNA Standard 5 16 Samples	Not applicable.
Reference DNA	Not applicable.
2X Brilliant III SYBR®	Not applicable.
Green QPCR Master Mix	
Reference Dye	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2X Brilliant III SYBR® Green QPCR Master Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the

SECTION 8: Exposure controls/personal protection

measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

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

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

Skin protection

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

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

SECTION 9: Physical and chemical properties

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 16 Samples	Liquid.
		DNA Standard 2 16 Samples	Liquid.
		DNA Standard 3 16 Samples	Liquid.
		DNA Standard 4 16 Samples	Liquid.
		DNA Standard 5 16 Samples	Liquid.

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	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 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	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 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	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 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

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pH	: Primer Set A 42 bp	7.8	
	Primer Set B 123 bp	7.8	
	DNA Standard 1 16 Samples	7.8	
	DNA Standard 2 16 Samples	7.8	
	DNA Standard 3 16 Samples	7.8	
	DNA Standard 4 16 Samples	7.8	
	DNA Standard 5 16 Samples	7.8	
	Reference DNA	7.8	
	2X Brilliant III SYBR®	7.8	
	Green QPCR Master Mix		
	Reference Dye	Not available.	
	Melting point/freezing point	: Primer Set A 42 bp	0°C
		Primer Set B 123 bp	0°C
		DNA Standard 1 16 Samples	0°C
DNA Standard 2 16 Samples		0°C	
DNA Standard 3 16 Samples		0°C	
DNA Standard 4 16 Samples		0°C	
DNA Standard 5 16 Samples		0°C	
Reference DNA		0°C	
2X Brilliant III SYBR®		Not available.	
Green QPCR Master Mix			
Reference Dye		Not available.	
Initial boiling point and boiling range		: Primer Set A 42 bp	100°C
		Primer Set B 123 bp	100°C
		DNA Standard 1 16 Samples	100°C
	DNA Standard 2 16 Samples	100°C	
	DNA Standard 3 16 Samples	100°C	
	DNA Standard 4 16 Samples	100°C	
	DNA Standard 5 16 Samples	100°C	
	Reference DNA	100°C	
	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 16 Samples	Not available.
DNA Standard 2 16 Samples		Not available.	
DNA Standard 3 16 Samples		Not available.	
DNA Standard 4 16 Samples		Not available.	

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	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not available.
Evaporation rate	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not available.
	Reference Dye	Not available.
Flammability (solid, gas)	: Primer Set A 42 bp	Not applicable.
	Primer Set B 123 bp	Not applicable.
	DNA Standard 1 16 Samples	Not applicable.
	DNA Standard 2 16 Samples	Not applicable.
	DNA Standard 3 16 Samples	Not applicable.
	DNA Standard 4 16 Samples	Not applicable.
	DNA Standard 5 16 Samples	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not applicable.
	Reference Dye	Not applicable.
Upper/lower flammability or explosive limits	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not available.
	Reference Dye	Not available.

SECTION 9: Physical and chemical properties

Vapour pressure	:	Primer Set A 42 bp	Not available.
		Primer Set B 123 bp	Not available.
		DNA Standard 1 16 Samples	Not available.
		DNA Standard 2 16 Samples	Not available.
		DNA Standard 3 16 Samples	Not available.
		DNA Standard 4 16 Samples	Not available.
		DNA Standard 5 16 Samples	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
Vapour density	:	Primer Set A 42 bp	Not available.
		Primer Set B 123 bp	Not available.
		DNA Standard 1 16 Samples	Not available.
		DNA Standard 2 16 Samples	Not available.
		DNA Standard 3 16 Samples	Not available.
		DNA Standard 4 16 Samples	Not available.
		DNA Standard 5 16 Samples	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 16 Samples	Not available.
		DNA Standard 2 16 Samples	Not available.
		DNA Standard 3 16 Samples	Not available.
		DNA Standard 4 16 Samples	Not available.
		DNA Standard 5 16 Samples	Not available.
		Reference DNA	Not available.
		2X Brilliant III SYBR®	Not available.
		Green QPCR Master Mix	
		Reference Dye	Not available.
Solubility(ies)	:	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 16 Samples	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 2 16 Samples	Easily soluble in the following materials: cold water and hot water.
		DNA Standard 3 16 Samples	Easily soluble in the following materials: cold water and hot water.

SECTION 9: Physical and chemical properties

	DNA Standard 4 16 Samples	Easily soluble in the following materials: cold water and hot water.
	DNA Standard 5 16 Samples	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.
Partition coefficient: n-octanol/water	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not available.
	Reference Dye	Not available.
Auto-ignition temperature	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not available.
	Reference Dye	Not available.
Decomposition temperature	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR® Green QPCR Master Mix	Not available.

SECTION 9: Physical and chemical properties

	Reference Dye	Not available.
Viscosity	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
Explosive properties	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.
Oxidising properties	: Primer Set A 42 bp	Not available.
	Primer Set B 123 bp	Not available.
	DNA Standard 1 16 Samples	Not available.
	DNA Standard 2 16 Samples	Not available.
	DNA Standard 3 16 Samples	Not available.
	DNA Standard 4 16 Samples	Not available.
	DNA Standard 5 16 Samples	Not available.
	Reference DNA	Not available.
	2X Brilliant III SYBR®	Not available.
	Green QPCR Master Mix	
	Reference Dye	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples 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.
10.3 Possibility of hazardous reactions	: Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples 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.

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	<ul style="list-style-type: none"> : Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye 	<ul style="list-style-type: none"> 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. No specific data.
10.5 Incompatible materials	<ul style="list-style-type: none"> : Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye 	<ul style="list-style-type: none"> May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	<ul style="list-style-type: none"> : Primer Set A 42 bp Primer Set B 123 bp DNA Standard 1 16 Samples DNA Standard 2 16 Samples DNA Standard 3 16 Samples DNA Standard 4 16 Samples DNA Standard 5 16 Samples Reference DNA 2X Brilliant III SYBR® Green QPCR Master Mix Reference Dye 	<ul style="list-style-type: none"> Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reference Dye 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Primer Set A 42 bp	Not available.
Primer Set B 123 bp	Not available.
DNA Standard 1 16 Samples	Not available.
DNA Standard 2 16 Samples	Not available.
DNA Standard 3 16 Samples	Not available.
DNA Standard 4 16 Samples	Not available.
DNA Standard 5 16 Samples	Not available.
Reference DNA	Not available.
2X Brilliant III SYBR® Green QPCR Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
Reference Dye	Routes of entry anticipated: Oral, Dermal, Inhalation.

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 16 Samples	No known significant effects or critical hazards.
	DNA Standard 2 16 Samples	No known significant effects or critical hazards.
	DNA Standard 3 16	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.
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 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 2 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 3 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.
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 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 2 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 3 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.
Eye 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 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 2 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 3 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Inhalation	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
		Reference Dye	No specific data.
Ingestion	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
		Reference Dye	No specific data.
Skin contact	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.
		2X Brilliant III SYBR®	No specific data.
		Green QPCR Master Mix	
		Reference Dye	No specific data.
Eye contact	:	Primer Set A 42 bp	No specific data.
		Primer Set B 123 bp	No specific data.
		DNA Standard 1 16 Samples	No specific data.
		DNA Standard 2 16 Samples	No specific data.
		DNA Standard 3 16 Samples	No specific data.
		DNA Standard 4 16 Samples	No specific data.
		DNA Standard 5 16 Samples	No specific data.
		Reference DNA	No specific data.

SECTION 11: Toxicological information

2X Brilliant III SYBR®	No specific data.
Green QPCR Master Mix	
Reference Dye	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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 16 Samples	No known significant effects or critical hazards.	
	DNA Standard 2 16 Samples	No known significant effects or critical hazards.	
	DNA Standard 3 16 Samples	No known significant effects or critical hazards.	
	DNA Standard 4 16 Samples	No known significant effects or critical hazards.	
	DNA Standard 5 16 Samples	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.	
	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 16 Samples	No known significant effects or critical hazards.
		DNA Standard 2 16 Samples	No known significant effects or critical hazards.
DNA Standard 3 16 Samples		No known significant effects or critical hazards.	
DNA Standard 4 16 Samples		No known significant effects or critical hazards.	
DNA Standard 5 16 Samples		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.	
Mutagenicity		: 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 16 Samples	No known significant effects or critical hazards.
		DNA Standard 2 16 Samples	No known significant effects or critical hazards.
	DNA Standard 3 16 Samples	No known significant effects or critical hazards.	
	DNA Standard 4 16 Samples	No known significant effects or critical hazards.	
	DNA Standard 5 16 Samples	No known significant effects or critical hazards.	

SECTION 11: Toxicological information

	Samples	
	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.
Teratogenicity	: 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 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 2 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 3 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.
Developmental effects	: 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 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 2 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 3 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.
Fertility effects	: 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 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 2 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 3 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 4 16	No known significant effects or critical hazards.
	Samples	
	DNA Standard 5 16	No known significant effects or critical hazards.
	Samples	
	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.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

Packaging

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

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

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

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

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Primer Set A 42 bp	Not applicable.
	Primer Set B 123 bp	Not applicable.
	DNA Standard 1 16 Samples	Not applicable.
	DNA Standard 2 16 Samples	Not applicable.
	DNA Standard 3 16 Samples	Not applicable.
	DNA Standard 4 16 Samples	Not applicable.
	DNA Standard 5 16 Samples	Not applicable.
	Reference DNA	Not applicable.
	2X Brilliant III SYBR® Green	Not applicable.
	QPCR Master Mix	Not applicable.
Reference Dye	Not applicable.	

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
Malaysia	: All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.

Agilent NGS FFPE QC Kit, EA, 16 Reactions, Part Number 5190-8833

SECTION 15: Regulatory information

Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Reference Dye	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Full text of classifications [CLP/GHS]

Reference Dye	
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
Skin Irrit. 2, H315	
STOT SE 3, H335	

Date of issue/ Date of revision : 21/08/2018

Date of previous issue : No previous validation

Version : 1

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