

# SAFETY DATA SHEET



PCR-RFLP Fish Species ID Kit, Part Number 5500-0001

## Section 1. Identification

<b>Product identifier</b>	: PCR-RFLP Fish Species ID Kit, Part Number 5500-0001		
<b>Part No. (Chemical Kit)</b>	: 5500-0001		
<b>Part No.</b>	<input checked="" type="checkbox"/>	PCR Master Mix	5190-2345
		10x PCR Primer Mix	5190-2346
		60 mM EDTA	5190-2354
		10x Ddel Buffer	5190-2348
		10x NlaIII/HaeIII Buffer	5190-2347
		100x BSA	5190-2352
		10x Ddel Restriction Enzyme	5190-2350
		10x NlaIII Restriction Enzyme	5190-2351
		10x HaeIII Restriction Enzyme	5190-2349
		Positive Control Salmon DNA	5190-2353

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

Analytical reagent.

<input checked="" type="checkbox"/>	PCR Master Mix	1.25 ml
	10x PCR Primer Mix	0.25 ml
	60 mM EDTA	0.3 ml
	10x Ddel Buffer	0.05 ml
	10x NlaIII/HaeIII Buffer	0.1 ml
	100x BSA	0.1 ml
	10x Ddel Restriction Enzyme	0.05 ml
	10x NlaIII Restriction Enzyme	0.05 ml
	10x HaeIII Restriction Enzyme	0.05 ml
	Positive Control Salmon DNA	0.01 ml

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

**Emergency telephone number (with hours of operation)** : CHEMTREC®: (61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

10x Ddel Buffer  
H319

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

<input checked="" type="checkbox"/>	PCR Master Mix	Not applicable.
	10x PCR Primer Mix	Not applicable.
	60 mM EDTA	Not applicable.
	10x Ddel Buffer	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 7.9%
	10x NlaIII/HaeIII Buffer	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3.6%
	100x BSA	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1%
	10x Ddel Restriction Enzyme	Not applicable.
	10x NlaIII Restriction Enzyme	Not applicable.
	10x HaeIII Restriction Enzyme	Not applicable.
	Positive Control Salmon DNA	Not applicable.

## Section 2. Hazard(s) identification

<input checked="" type="checkbox"/> PCR Master Mix	Not applicable.
10x PCR Primer Mix	Not applicable.
60 mM EDTA	Not applicable.
10x Ddel Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%
10x NlaIII/HaeIII Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.6%
100x BSA	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%
10x Ddel Restriction Enzyme	Not applicable.
10x NlaIII Restriction Enzyme	Not applicable.
10x HaeIII Restriction Enzyme	Not applicable.
Positive Control Salmon DNA	Not applicable.

### GHS label elements

#### Hazard pictograms



#### Signal word

<input checked="" type="checkbox"/> PCR Master Mix	No signal word.
10x PCR Primer Mix	No signal word.
60 mM EDTA	No signal word.
10x Ddel Buffer	WARNING
10x NlaIII/HaeIII Buffer	No signal word.
100x BSA	No signal word.
10x Ddel Restriction Enzyme	No signal word.
10x NlaIII Restriction Enzyme	No signal word.
10x HaeIII Restriction Enzyme	No signal word.
Positive Control Salmon DNA	No signal word.

#### Hazard statements

<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.
10x PCR Primer Mix	No known significant effects or critical hazards.
60 mM EDTA	No known significant effects or critical hazards.
10x Ddel Buffer	H319 - Causes serious eye irritation.
10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.
100x BSA	No known significant effects or critical hazards.
10x Ddel Restriction Enzyme	No known significant effects or critical hazards.
10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.
10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.
Positive Control Salmon DNA	No known significant effects or critical hazards.

### Precautionary statements

#### Prevention

<input checked="" type="checkbox"/> PCR Master Mix	Not applicable.
10x PCR Primer Mix	Not applicable.
60 mM EDTA	Not applicable.
10x Ddel Buffer	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
10x NlaIII/HaeIII Buffer	Not applicable.
100x BSA	Not applicable.
10x Ddel Restriction Enzyme	Not applicable.
10x NlaIII Restriction Enzyme	Not applicable.
10x HaeIII Restriction Enzyme	Not applicable.
Positive Control Salmon DNA	Not applicable.

## Section 2. Hazard(s) identification

<b>Response</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	Not applicable.
		10x PCR Primer Mix	Not applicable.
		60 mM EDTA	Not applicable.
		10x Ddel Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
		10x NlaIII/HaeIII Buffer	Not applicable.
		100x BSA	Not applicable.
		10x Ddel Restriction Enzyme	Not applicable.
		10x NlaIII Restriction Enzyme	Not applicable.
		10x HaeIII Restriction Enzyme	Not applicable.
		Positive Control Salmon DNA	Not applicable.
<b>Storage</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	Not applicable.
		10x PCR Primer Mix	Not applicable.
		60 mM EDTA	Not applicable.
		10x Ddel Buffer	Not applicable.
		10x NlaIII/HaeIII Buffer	Not applicable.
		100x BSA	Not applicable.
		10x Ddel Restriction Enzyme	Not applicable.
		10x NlaIII Restriction Enzyme	Not applicable.
		10x HaeIII Restriction Enzyme	Not applicable.
		Positive Control Salmon DNA	Not applicable.
<b>Disposal</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	Not applicable.
		10x PCR Primer Mix	Not applicable.
		60 mM EDTA	Not applicable.
		10x Ddel Buffer	Not applicable.
		10x NlaIII/HaeIII Buffer	Not applicable.
		100x BSA	Not applicable.
		10x Ddel Restriction Enzyme	Not applicable.
		10x NlaIII Restriction Enzyme	Not applicable.
		10x HaeIII Restriction Enzyme	Not applicable.
		Positive Control Salmon DNA	Not applicable.
<b>Supplemental label elements</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	Not applicable.
		10x PCR Primer Mix	Not applicable.
		60 mM EDTA	Not applicable.
		10x Ddel Buffer	Not applicable.
		10x NlaIII/HaeIII Buffer	Not applicable.
		100x BSA	Not applicable.
		10x Ddel Restriction Enzyme	Not applicable.
		10x NlaIII Restriction Enzyme	Not applicable.
		10x HaeIII Restriction Enzyme	Not applicable.
		Positive Control Salmon DNA	Not applicable.
<b>Other hazards which do not result in classification</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	None known.
		10x PCR Primer Mix	None known.
		60 mM EDTA	None known.
		10x Ddel Buffer	None known.
		10x NlaIII/HaeIII Buffer	None known.
		100x BSA	None known.
		10x Ddel Restriction Enzyme	None known.
		10x NlaIII Restriction Enzyme	None known.
		10x HaeIII Restriction Enzyme	None known.
		Positive Control Salmon DNA	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	:	2x PCR Master Mix	Mixture
		10x PCR Primer Mix	Mixture
		60 mM EDTA	Mixture
		10x Ddel Buffer	Mixture
		10x NlaIII/HaeIII Buffer	Mixture
		100x BSA	Mixture
		10x Ddel Restriction Enzyme	Mixture
		10x NlaIII Restriction Enzyme	Mixture
		10x HaeIII Restriction Enzyme	Mixture
		Positive Control Salmon DNA	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>10x PCR Primer Mix</b> Water	100	7732-18-5
<b>2x PCR Master Mix</b> Glycerol	≤3	56-81-5
<b>10x Ddel Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	<10	1185-53-1
Sodium chloride	≤10	7647-14-5
<b>100x BSA</b> Glycerol	≤10	56-81-5
<b>10x Ddel Restriction Enzyme</b> Glycerol	≥30 - ≤60	56-81-5
<b>10x NlaIII Restriction Enzyme</b> Glycerol	≥30 - ≤60	56-81-5
<b>10x HaeIII Restriction Enzyme</b> Glycerol	≥30 - ≤60	56-81-5

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


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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	:	2x PCR 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.
		10x PCR Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		60 mM EDTA	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.
		10x Ddel Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		10x NlaIII/HaeIII Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

## Section 4. First aid measures

	100x BSA	Check for and remove any contact lenses. Get medical attention if irritation occurs. 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.
	10x Ddel Restriction Enzyme	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.
	10x NlaIII Restriction Enzyme	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.
	10x HaeIII Restriction Enzyme	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.
	Positive Control Salmon 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.
<b>Inhalation</b>	:  PCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10x PCR Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	60 mM EDTA	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.
	10x Ddel Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
	10x NlaIII/HaeIII Buffer	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.
	100x BSA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10x Ddel Restriction Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10x NlaIII Restriction Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

## Section 4. First aid measures

		attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10x HaeIII Restriction Enzyme	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Positive Control Salmon DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> PCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10x PCR Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	60 mM EDTA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10x Ddel Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	10x NlaIII/HaeIII Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	100x BSA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10x Ddel Restriction Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10x NlaIII Restriction Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10x HaeIII Restriction Enzyme	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Positive Control Salmon DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> PCR 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.
	10x PCR Primer 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.
	60 mM EDTA	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.
	10x Ddel Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is

## Section 4. First aid measures

	conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
10x NlaIII/HaeIII Buffer	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.
100x BSA	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.
10x Ddel Restriction Enzyme	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.
10x NlaIII Restriction Enzyme	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.
10x HaeIII Restriction Enzyme	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.
Positive Control Salmon 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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

## Section 4. First aid measures

<b>Eye contact</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation. 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.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	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.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	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.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	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.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer  10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
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## Section 4. First aid measures

<b>Inhalation</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No specific data.
		10x PCR Primer Mix	No specific data.
		60 mM EDTA	No specific data.
		10x Ddel Buffer	No specific data.
		10x NlaIII/HaeIII Buffer	No specific data.
		100x BSA	No specific data.
		10x Ddel Restriction Enzyme	No specific data.
		10x NlaIII Restriction Enzyme	No specific data.
		10x HaeIII Restriction Enzyme	No specific data.
		Positive Control Salmon DNA	No specific data.
	<b>Skin contact</b>	:	<input checked="" type="checkbox"/> PCR Master Mix
		10x PCR Primer Mix	No specific data.
		60 mM EDTA	No specific data.
		10x Ddel Buffer	No specific data.
		10x NlaIII/HaeIII Buffer	No specific data.
		100x BSA	No specific data.
		10x Ddel Restriction Enzyme	No specific data.
		10x NlaIII Restriction Enzyme	No specific data.
		10x HaeIII Restriction Enzyme	No specific data.
		Positive Control Salmon DNA	No specific data.
<b>Ingestion</b>		:	<input checked="" type="checkbox"/> PCR Master Mix
		10x PCR Primer Mix	No specific data.
		60 mM EDTA	No specific data.
		10x Ddel Buffer	No specific data.
		10x NlaIII/HaeIII Buffer	No specific data.
		100x BSA	No specific data.
		10x Ddel Restriction Enzyme	No specific data.
		10x NlaIII Restriction Enzyme	No specific data.
		10x HaeIII Restriction Enzyme	No specific data.
		Positive Control Salmon DNA	No specific data.

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

<b>Notes to physician</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10x PCR Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		60 mM EDTA	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.
		10x Ddel Buffer	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.
		10x NlaIII/HaeIII Buffer	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.
		100x BSA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10x Ddel Restriction Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		10x NlaIII Restriction Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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	10x HaeIII Restriction Enzyme	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Positive Control Salmon DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: <input checked="" type="checkbox"/> PCR Master Mix	No specific treatment.
	10x PCR Primer Mix	No specific treatment.
	60 mM EDTA	No specific treatment.
	10x Ddel Buffer	No specific treatment.
	10x NlaIII/HaeIII Buffer	No specific treatment.
	100x BSA	No specific treatment.
	10x Ddel Restriction Enzyme	No specific treatment.
	10x NlaIII Restriction Enzyme	No specific treatment.
	10x HaeIII Restriction Enzyme	No specific treatment.
	Positive Control Salmon DNA	No specific treatment.
<b>Protection of first-aiders</b>	: <input checked="" type="checkbox"/> PCR Master Mix	No action shall be taken involving any personal risk or without suitable training.
	10x PCR Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	60 mM EDTA	No action shall be taken involving any personal risk or without suitable training.
	10x Ddel Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	10x NlaIII/HaeIII Buffer	No action shall be taken involving any personal risk or without suitable training.
	100x BSA	No action shall be taken involving any personal risk or without suitable training.
	10x Ddel Restriction Enzyme	No action shall be taken involving any personal risk or without suitable training.
	10x NlaIII Restriction Enzyme	No action shall be taken involving any personal risk or without suitable training.
	10x HaeIII Restriction Enzyme	No action shall be taken involving any personal risk or without suitable training.
	Positive Control Salmon DNA	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: <input checked="" type="checkbox"/> PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	10x PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
	60 mM EDTA	Use an extinguishing agent suitable for the surrounding fire.
	10x Ddel Buffer	Use an extinguishing agent suitable for the surrounding fire.
	10x NlaIII/HaeIII Buffer	Use an extinguishing agent suitable for the surrounding fire.
	100x BSA	Use an extinguishing agent suitable for the surrounding fire.
	10x Ddel Restriction Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	10x NlaIII Restriction Enzyme	Use an extinguishing agent suitable for the surrounding fire.
	10x HaeIII Restriction Enzyme	Use an extinguishing agent suitable for the surrounding fire.

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	Enzyme	surrounding fire.
	Positive Control Salmon DNA	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: <input checked="" type="checkbox"/> PCR Master Mix	None known.
	10x PCR Primer Mix	None known.
	60 mM EDTA	None known.
	10x Ddel Buffer	None known.
	10x NlaIII/HaeIII Buffer	None known.
	100x BSA	None known.
	10x Ddel Restriction Enzyme	None known.
	10x NlaIII Restriction Enzyme	None known.
	10x HaeIII Restriction Enzyme	None known.
	Positive Control Salmon DNA	None known.
<b>Specific hazards arising from the chemical</b>	: <input checked="" type="checkbox"/> PCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	60 mM EDTA	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x Ddel Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x NlaIII/HaeIII Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	100x BSA	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x Ddel Restriction Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x NlaIII Restriction Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x HaeIII Restriction Enzyme	In a fire or if heated, a pressure increase will occur and the container may burst.
	Positive Control Salmon DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: <input checked="" type="checkbox"/> PCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10x PCR Primer Mix	No specific data.
	60 mM EDTA	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	10x Ddel Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	10x NlaIII/HaeIII Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
	100x BSA	Decomposition products may include the following materials: carbon dioxide carbon monoxide

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10x Ddel Restriction Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
10x NlaIII Restriction Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
10x HaeIII Restriction Enzyme	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Positive Control Salmon DNA	No specific data.

### Special protective actions for fire-fighters

: <input checked="" type="checkbox"/> PCR 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.
10x PCR Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
60 mM EDTA	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.
10x Ddel Buffer	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.
10x NlaIII/HaeIII Buffer	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.
100x BSA	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.
10x Ddel Restriction Enzyme	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.
10x NlaIII Restriction Enzyme	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.
10x HaeIII Restriction Enzyme	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.
Positive Control Salmon 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.

## Section 5. Firefighting measures

<b>Special protective equipment for fire-fighters</b>	: <input checked="" type="checkbox"/> PCR 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.
	10x PCR Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	60 mM EDTA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10x Ddel Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10x NlaIII/HaeIII Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	100x BSA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10x Ddel Restriction Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10x NlaIII Restriction Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10x HaeIII Restriction Enzyme	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Positive Control Salmon DNA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: <input checked="" type="checkbox"/> PCR 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.
	10x PCR Primer Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	60 mM EDTA	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.
	10x Ddel Buffer	No action shall be taken involving any personal risk

## Section 6. Accidental release measures

	or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
10x NlaIII/HaeIII Buffer	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.
100x BSA	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.
10x Ddel Restriction Enzyme	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.
10x NlaIII Restriction Enzyme	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.
10x HaeIII Restriction Enzyme	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.
Positive Control Salmon 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.
<b>For emergency responders :</b> 2x PCR 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".
10x PCR Primer 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".
60 mM EDTA	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".
10x Ddel Buffer	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".
10x NlaIII/HaeIII Buffer	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".

## Section 6. Accidental release measures

100x BSA	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".
10x Ddel Restriction Enzyme	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".
10x NlaIII Restriction Enzyme	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".
10x HaeIII Restriction Enzyme	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".
Positive Control Salmon 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".

<b>Environmental precautions</b> :  PCR Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10x PCR Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
60 mM EDTA	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).
10x Ddel Buffer	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).
10x NlaIII/HaeIII Buffer	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).
100x BSA	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).
10x Ddel Restriction Enzyme	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).
10x NlaIII Restriction Enzyme	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).
10x HaeIII Restriction Enzyme	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 6. Accidental release measures

Positive Control Salmon DNA	Inform the relevant authorities if the product has caused environmental pollution (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).
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### Methods and material for containment and cleaning up

Methods for cleaning up :  PCR Master Mix

10x PCR Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
60 mM EDTA	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.
10x Ddel Buffer	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.
10x NlaIII/HaeIII Buffer	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.
100x BSA	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.
10x Ddel Restriction Enzyme	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.
10x NlaIII Restriction Enzyme	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.
10x HaeIII Restriction Enzyme	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.



## Section 6. Accidental release measures

Positive Control Salmon DNA	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

: <input checked="" type="checkbox"/> PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
10x PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
60 mM EDTA	Put on appropriate personal protective equipment (see Section 8).
10x Ddel Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
10x NlaIII/HaeIII Buffer	Put on appropriate personal protective equipment (see Section 8).
100x BSA	Put on appropriate personal protective equipment (see Section 8).
10x Ddel Restriction Enzyme	Put on appropriate personal protective equipment (see Section 8).
10x NlaIII Restriction Enzyme	Put on appropriate personal protective equipment (see Section 8).
10x HaeIII Restriction Enzyme	Put on appropriate personal protective equipment (see Section 8).
Positive Control Salmon DNA	Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

: <input checked="" type="checkbox"/> PCR Master Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10x PCR Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
60 mM EDTA	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.
10x Ddel Buffer	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

## Section 7. Handling and storage

10x NlaIII/HaeIII Buffer	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
100x BSA	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.
10x Ddel Restriction Enzyme	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.
10x NlaIII Restriction Enzyme	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.
10x HaeIII Restriction Enzyme	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.
Positive Control Salmon DNA	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** :  PCR Master Mix

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

10x PCR Primer Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

## Section 7. Handling and storage

60 mM EDTA	prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
10x Ddel Buffer	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.
10x NlaIII/HaeIII Buffer	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.
100x BSA	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.
10x Ddel Restriction Enzyme	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.
10x NlaIII Restriction Enzyme	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.

## Section 7. Handling and storage

10x HaeIII Restriction Enzyme

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.

Positive Control Salmon DNA

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

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>2x PCR Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>100x BSA</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>10x Ddel Restriction Enzyme</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>10x NlaIII Restriction Enzyme</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>10x HaeIII Restriction Enzyme</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

### Appropriate engineering controls

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

### Environmental exposure controls

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

### Individual protection measures

#### Hygiene measures

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

## Section 8. Exposure controls and personal protection

- 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: chemical splash goggles.
- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** :  Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** :  Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** :  Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** :  PCR Master Mix Liquid.  
 10x PCR Primer Mix Liquid.  
 60 mM EDTA Liquid.  
 10x Ddel Buffer Liquid.  
 10x NlaIII/HaeIII Buffer Liquid.  
 100x BSA Liquid.  
 10x Ddel Restriction Enzyme Liquid.  
 10x NlaIII Restriction Enzyme Liquid.  
 10x HaeIII Restriction Enzyme Liquid.  
 Positve Control Salmon DNA Liquid.
- Colour** :  PCR Master Mix Not available.  
 10x PCR Primer Mix Not available.  
 60 mM EDTA Not available.  
 10x Ddel Buffer Not available.  
 10x NlaIII/HaeIII Buffer Not available.  
 100x BSA Not available.  
 10x Ddel Restriction Enzyme Not available.  
 10x NlaIII Restriction Enzyme Not available.  
 10x HaeIII Restriction Enzyme Not available.  
 Positve Control Salmon DNA Not available.
- Odour** :  PCR Master Mix Not available.  
 10x PCR Primer Mix Not available.  
 60 mM EDTA Not available.  
 10x Ddel Buffer Not available.  
 10x NlaIII/HaeIII Buffer Not available.  
 100x BSA Not available.  
 10x Ddel Restriction Enzyme Not available.  
 10x NlaIII Restriction Enzyme Not available.  
 10x HaeIII Restriction Enzyme Not available.  
 Positve Control Salmon DNA Not available.

## Section 9. Physical and chemical properties

<b>Odour threshold</b>	: <input checked="" type="checkbox"/>	PCR Master Mix Not available. 10x PCR Primer Mix Not available. 60 mM EDTA Not available. 10x Ddel Buffer Not available. 10x NlaIII/HaeIII Buffer Not available. 100x BSA Not available. 10x Ddel Restriction Enzyme Not available. 10x NlaIII Restriction Enzyme Not available. 10x HaeIII Restriction Enzyme Not available. Positve Control Salmon DNA Not available.
<b>pH</b>	: <input checked="" type="checkbox"/>	PCR Master Mix 8.8 10x PCR Primer Mix 8.8 60 mM EDTA 8.8 10x Ddel Buffer Not available. 10x NlaIII/HaeIII Buffer Not available. 100x BSA Not available. 10x Ddel Restriction Enzyme Not available. 10x NlaIII Restriction Enzyme Not available. 10x HaeIII Restriction Enzyme Not available. Positve Control Salmon DNA Not available.
<b>Melting point</b>	:	2x PCR Master Mix 0°C (32°F) 10x PCR Primer Mix 0°C (32°F) 60 mM EDTA Not available. 10x Ddel Buffer Not available. 10x NlaIII/HaeIII Buffer Not available. 100x BSA 0°C (32°F) 10x Ddel Restriction Enzyme Not available. 10x NlaIII Restriction Enzyme Not available. 10x HaeIII Restriction Enzyme Not available. Positve Control Salmon DNA 0°C (32°F)
<b>Boiling point</b>	:	2x PCR Master Mix 100°C (212°F) 10x PCR Primer Mix 100°C (212°F) 60 mM EDTA Not available. 10x Ddel Buffer Not available. 10x NlaIII/HaeIII Buffer Not available. 100x BSA 100°C (212°F) 10x Ddel Restriction Enzyme Not available. 10x NlaIII Restriction Enzyme Not available. 10x HaeIII Restriction Enzyme Not available. Positve Control Salmon DNA 100°C (212°F)
<b>Flash point</b>	:	2x PCR Master Mix Not available. 10x PCR Primer Mix Not applicable. 60 mM EDTA Not available. 10x Ddel Buffer Not available. 10x NlaIII/HaeIII Buffer Not available. 100x BSA Not available. 10x Ddel Restriction Enzyme Not available. 10x NlaIII Restriction Enzyme Not available. 10x HaeIII Restriction Enzyme Not available. Positve Control Salmon DNA Not available.

## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Flammability (solid, gas)</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Vapour pressure</b>	: 2x PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. 3.2 kPa (23.8 mm Hg) [room temperature] Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Vapour density</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

## Section 9. Physical and chemical properties

<b>Relative density</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Solubility</b>	: <input checked="" type="checkbox"/> PCR Master Mix  10x PCR Primer Mix  60 mM EDTA  10x Ddel Buffer  10x NlaIII/HaeIII Buffer  100x BSA  10x Ddel Restriction Enzyme  10x NlaIII Restriction Enzyme  10x HaeIII Restriction Enzyme  Positive Control Salmon DNA	Easily soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.  Soluble in the following materials: cold water and hot water.  Soluble in the following materials: cold water and hot water.  Soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Auto-ignition temperature</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	Not available. Not applicable. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Decomposition temperature</b>	: 2x PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction	Not available. >1200°C (>2192°F) Not available. Not available. Not available. Not available. Not available. Not available. Not available.



## Section 9. Physical and chemical properties

	Enzyme	
	Positive Control Salmon DNA	Not available.
<b>Viscosity</b>	: 2x PCR Master Mix	Not available.
	10x PCR Primer Mix	Not available.
	60 mM EDTA	Not available.
	10x Ddel Buffer	Not available.
	10x NlaIII/HaeIII Buffer	Not available.
	100x BSA	Not available.
	10x Ddel Restriction Enzyme	Not available.
	10x NlaIII Restriction Enzyme	Not available.
	10x HaeIII Restriction	Not available.
	Enzyme	
	Positive Control Salmon DNA	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: <input checked="" type="checkbox"/> 2x PCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
	10x PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
	60 mM EDTA	No specific test data related to reactivity available for this product or its ingredients.
	10x Ddel Buffer	No specific test data related to reactivity available for this product or its ingredients.
	10x NlaIII/HaeIII Buffer	No specific test data related to reactivity available for this product or its ingredients.
	100x BSA	No specific test data related to reactivity available for this product or its ingredients.
	10x Ddel Restriction Enzyme	No specific test data related to reactivity available for this product or its ingredients.
	10x NlaIII Restriction Enzyme	No specific test data related to reactivity available for this product or its ingredients.
	10x HaeIII Restriction Enzyme	No specific test data related to reactivity available for this product or its ingredients.
	Positive Control Salmon DNA	No specific test data related to reactivity available for this product or its ingredients.

<b>Chemical stability</b>	: <input checked="" type="checkbox"/> 2x PCR Master Mix	The product is stable.
	10x PCR Primer Mix	The product is stable.
	60 mM EDTA	The product is stable.
	10x Ddel Buffer	The product is stable.
	10x NlaIII/HaeIII Buffer	The product is stable.
	100x BSA	The product is stable.
	10x Ddel Restriction Enzyme	The product is stable.
	10x NlaIII Restriction Enzyme	The product is stable.
	10x HaeIII Restriction Enzyme	The product is stable.
	Positive Control Salmon DNA	The product is stable.

<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> 2x PCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	10x PCR Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	60 mM EDTA	Under normal conditions of storage and use, hazardous reactions will not occur.
	10x Ddel Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	10x NlaIII/HaeIII Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	100x BSA	Under normal conditions of storage and use, hazardous reactions will not occur.
	10x Ddel Restriction Enzyme	Under normal conditions of storage and use,

## Section 10. Stability and reactivity

10x NlaIII Restriction Enzyme	hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10x HaeIII Restriction Enzyme	Under normal conditions of storage and use, hazardous reactions will not occur.
Positive Control Salmon DNA	Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid

: <input checked="" type="checkbox"/> PCR Master Mix	No specific data.
10x PCR Primer Mix	No specific data.
60 mM EDTA	No specific data.
10x Ddel Buffer	No specific data.
10x NlaIII/HaeIII Buffer	No specific data.
100x BSA	No specific data.
10x Ddel Restriction Enzyme	No specific data.
10x NlaIII Restriction Enzyme	No specific data.
10x HaeIII Restriction Enzyme	No specific data.
Positive Control Salmon DNA	No specific data.

### Incompatible materials

: <input checked="" type="checkbox"/> PCR Master Mix	May react or be incompatible with oxidising materials.
10x PCR Primer Mix	May react or be incompatible with oxidising materials.
60 mM EDTA	May react or be incompatible with oxidising materials.
10x Ddel Buffer	May react or be incompatible with oxidising materials.
10x NlaIII/HaeIII Buffer	May react or be incompatible with oxidising materials.
100x BSA	May react or be incompatible with oxidising materials.
10x Ddel Restriction Enzyme	May react or be incompatible with oxidising materials.
10x NlaIII Restriction Enzyme	May react or be incompatible with oxidising materials.
10x HaeIII Restriction Enzyme	May react or be incompatible with oxidising materials.
Positive Control Salmon DNA	May react or be incompatible with oxidising materials.

### Hazardous decomposition products

: <input checked="" type="checkbox"/> PCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x PCR Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
60 mM EDTA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x Ddel Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x NlaIII/HaeIII Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
100x BSA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x Ddel Restriction Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x NlaIII Restriction Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x HaeIII Restriction Enzyme	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Positive Control Salmon DNA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>2x PCR Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>10x Ddel Buffer</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>100x BSA</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>10x Ddel Restriction Enzyme</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>10x NlaIII Restriction Enzyme</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>10x HaeIII Restriction Enzyme</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>2x PCR Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>10x Ddel Buffer</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>100x BSA</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>10x Ddel Restriction Enzyme</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>10x NlaIII Restriction Enzyme</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>10x HaeIII Restriction Enzyme</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

## Section 11. Toxicological information

Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitisation

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>10x Ddel Buffer</b> 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.

<b>Information on likely routes of exposure</b>	<input checked="" type="checkbox"/> PCR Master Mix	Not available.
	10x PCR Primer Mix	Not available.
	60 mM EDTA	Not available.
	10x Ddel Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10x NlaIII/HaeIII Buffer	Not available.
	100x BSA	Not available.
	10x Ddel Restriction Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10x NlaIII Restriction Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10x HaeIII Restriction Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Positive Control Salmon DNA	Not available.

### Potential acute health effects

<b>Eye contact</b>	<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.
	10x PCR Primer Mix	No known significant effects or critical hazards.
	60 mM EDTA	No known significant effects or critical hazards.
	10x Ddel Buffer	Causes serious eye irritation.
	10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.
	100x BSA	No known significant effects or critical hazards.
	10x Ddel Restriction Enzyme	No known significant effects or critical hazards.
	10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.
	10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.
	Positive Control Salmon DNA	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Inhalation</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	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.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	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.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer  10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Inhalation</b>	: <input checked="" type="checkbox"/> PCR Master Mix 10x PCR Primer Mix 60 mM EDTA 10x Ddel Buffer 10x NlaIII/HaeIII Buffer 100x BSA 10x Ddel Restriction Enzyme 10x NlaIII Restriction Enzyme 10x HaeIII Restriction Enzyme Positive Control Salmon DNA	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.

## Section 11. Toxicological information

<b>Skin contact</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No specific data.	
		10x PCR Primer Mix	No specific data.	
		60 mM EDTA	No specific data.	
		10x Ddel Buffer	No specific data.	
		10x NlaIII/HaeIII Buffer	No specific data.	
		100x BSA	No specific data.	
		10x Ddel Restriction Enzyme	No specific data.	
		10x NlaIII Restriction Enzyme	No specific data.	
		10x HaeIII Restriction Enzyme	No specific data.	
		Positive Control Salmon DNA	No specific data.	
	<b>Ingestion</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No specific data.
			10x PCR Primer Mix	No specific data.
			60 mM EDTA	No specific data.
		10x Ddel Buffer	No specific data.	
		10x NlaIII/HaeIII Buffer	No specific data.	
		100x BSA	No specific data.	
		10x Ddel Restriction Enzyme	No specific data.	
		10x NlaIII Restriction Enzyme	No specific data.	
		10x HaeIII Restriction Enzyme	No specific data.	
		Positive Control Salmon DNA	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

Not available.

<b>General</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.	
		10x PCR Primer Mix	No known significant effects or critical hazards.	
		60 mM EDTA	No known significant effects or critical hazards.	
		10x Ddel Buffer	No known significant effects or critical hazards.	
		10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.	
		100x BSA	No known significant effects or critical hazards.	
		10x Ddel Restriction Enzyme	No known significant effects or critical hazards.	
		10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.	
		10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.	
		Positive Control Salmon DNA	No known significant effects or critical hazards.	
	<b>Carcinogenicity</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.
			10x PCR Primer Mix	No known significant effects or critical hazards.
			60 mM EDTA	No known significant effects or critical hazards.
		10x Ddel Buffer	No known significant effects or critical hazards.	
		10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.	
		100x BSA	No known significant effects or critical hazards.	
		10x Ddel Restriction Enzyme	No known significant effects or critical hazards.	
		10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.	
		10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.	
		Positive Control Salmon DNA	No known significant effects or critical hazards.	

## Section 11. Toxicological information

<b>Mutagenicity</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.		
		10x PCR Primer Mix	No known significant effects or critical hazards.		
		60 mM EDTA	No known significant effects or critical hazards.		
		10x Ddel Buffer	No known significant effects or critical hazards.		
		10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.		
		100x BSA	No known significant effects or critical hazards.		
		10x Ddel Restriction Enzyme	No known significant effects or critical hazards.		
		10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.		
		10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.		
		Positive Control Salmon DNA	No known significant effects or critical hazards.		
		<b>Teratogenicity</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.
				10x PCR Primer Mix	No known significant effects or critical hazards.
				60 mM EDTA	No known significant effects or critical hazards.
10x Ddel Buffer	No known significant effects or critical hazards.				
10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.				
100x BSA	No known significant effects or critical hazards.				
10x Ddel Restriction Enzyme	No known significant effects or critical hazards.				
10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.				
10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.				
Positive Control Salmon DNA	No known significant effects or critical hazards.				
<b>Developmental effects</b>	:			<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.
				10x PCR Primer Mix	No known significant effects or critical hazards.
				60 mM EDTA	No known significant effects or critical hazards.
		10x Ddel Buffer	No known significant effects or critical hazards.		
		10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.		
		100x BSA	No known significant effects or critical hazards.		
		10x Ddel Restriction Enzyme	No known significant effects or critical hazards.		
		10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.		
		10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.		
		Positive Control Salmon DNA	No known significant effects or critical hazards.		
		<b>Fertility effects</b>	:	<input checked="" type="checkbox"/> PCR Master Mix	No known significant effects or critical hazards.
				10x PCR Primer Mix	No known significant effects or critical hazards.
				60 mM EDTA	No known significant effects or critical hazards.
10x Ddel Buffer	No known significant effects or critical hazards.				
10x NlaIII/HaeIII Buffer	No known significant effects or critical hazards.				
100x BSA	No known significant effects or critical hazards.				
10x Ddel Restriction Enzyme	No known significant effects or critical hazards.				
10x NlaIII Restriction Enzyme	No known significant effects or critical hazards.				
10x HaeIII Restriction Enzyme	No known significant effects or critical hazards.				
Positive Control Salmon DNA	No known significant effects or critical hazards.				

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
<b>2x PCR Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>10x Ddel Buffer</b> Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 28.85 mg/dm3 Fresh water  Acute EC50 519.6 mg/l Fresh water  Acute IC50 6.87 g/L Fresh water Acute LC50 1661 mg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water  Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Algae - Navicula seminulum Algae - Pseudokirchneriella subcapitata Crustaceans - Cypris subglobosa Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 96 hours 72 hours 48 hours 96 hours 48 hours 96 hours 3 weeks  96 hours 21 days 8 weeks
<b>100x BSA</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>10x Ddel Restriction Enzyme</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>10x NlaIII Restriction Enzyme</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>10x HaeIII Restriction Enzyme</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>10x PCR Primer Mix</b> Water	-	100 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>10x PCR Primer Mix</b> Water	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>2x PCR Master Mix</b> Glycerol	-1.76	-	low
<b>10x PCR Primer Mix</b> Water	-1.38	-	low
<b>100x BSA</b> Glycerol	-1.76	-	low
<b>10x Ddel Restriction Enzyme</b>			



## Section 12. Ecological information

Glycerol	-1.76	-	low
<b>10x NlaIII Restriction Enzyme</b>			
Glycerol	-1.76	-	low
<b>10x HaeIII Restriction Enzyme</b>			
Glycerol	-1.76	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

### Regulatory information

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

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

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

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons



### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** :  Not determined.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

## Section 15. Regulatory information

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

<b>Canada</b>	: <input checked="" type="checkbox"/> At least one component is not listed in DSL but all such components are listed in NDSL.
<b>China</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: <input checked="" type="checkbox"/> Not determined.
<b>New Zealand</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Philippines</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Republic of Korea</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Taiwan</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Turkey</b>	: <input checked="" type="checkbox"/> Not determined.
<b>United States</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 29/02/2016

**Date of previous issue** : 30/04/2014.

**Version** : 3.01

**Key to abbreviations** :

- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> 10x Ddel Buffer Eye Irrit. 2A, H319	Calculation method

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

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