

# SAFETY DATA SHEET



Gigapack III XL-4 Packaging Extract, Part Number 200207

## Section 1. Identification

**Product identifier** : Gigapack III XL-4 Packaging Extract, Part Number 200207  
**Part No. (Chemical Kit)** : 200207  
**Part No.** :  CS257 E. coli Strain 200256-51  
 Wild-Type Lambda DNA c1857ind 1 246203-51  
 Sam7  
 Gigapack III XL - 11 packaging extract 200207-41

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

Analytical reagent.

CS257 E. coli Strain 1 ml  
 Wild-Type Lambda DNA c1857ind 1 Sam7 0.005 ml (1.05 µg 0.21 µg/µl)  
 Gigapack III XL - 11 packaging extract 0.1 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

Not classified.

CS257 E. coli Strain Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%  
 Gigapack III XL - 11 packaging extract Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

### GHS label elements

**Signal word** :  CS257 E. coli Strain No signal word.  
 Wild-Type Lambda DNA No signal word.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 packaging extract No signal word.

**Hazard statements** :  CS257 E. coli Strain No known significant effects or critical hazards.  
 Wild-Type Lambda DNA No known significant effects or critical hazards.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 packaging extract No known significant effects or critical hazards.

### Precautionary statements

**Prevention** :  CS257 E. coli Strain Not applicable.  
 Wild-Type Lambda DNA Not applicable.  
 c1857ind 1 Sam7  
 Gigapack III XL - 11 packaging extract Not applicable.

## Section 2. Hazard(s) identification

<b>Response</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>		
<b>Additional warning phrases</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.
<b>Other hazards which do not result in classification</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	None known. None known. None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Mixture Mixture Mixture
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### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> CS257 E. coli Strain Glycerol	≥10 - ≤30	56-81-5
Gigapack III XL - 11 packaging extract Sucrose	≤10	57-50-1

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

## Section 4. First aid measures

<b>Eye contact</b>	: ✓CS257 E. coli Strain	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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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>	: ✓CS257 E. coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Gigapack III XL - 11 packaging extract	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>	: ✓CS257 E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Gigapack III XL - 11 packaging extract	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: ✓CS257 E. coli Strain	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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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

<b>Eye contact</b>	: ✓CS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards.
	Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Inhalation</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data. No specific data.
<b>Inhalation</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data. No specific data.

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

<b>Notes to physician</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7  Gigapack III XL - 11 packaging extract	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. 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>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	None known. None known.  None known.
<b>Specific hazards arising from the chemical</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides No specific data.  Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special protective actions for fire-fighters</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7  Gigapack III XL - 11 packaging extract	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. 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. 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.
<b>Special protective equipment for fire-fighters</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7  Gigapack III XL - 11 packaging extract	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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>	: ✓CS257 E. coli Strain	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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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.
	Gigapack III XL - 11 packaging extract	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>	: ✓CS257 E. coli Strain	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".
	Wild-Type Lambda DNA c1857ind 1 Sam7	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".
	Gigapack III XL - 11 packaging extract	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>	: ✓CS257 E. coli Strain	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).
	Wild-Type Lambda DNA c1857ind 1 Sam7	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).
	Gigapack III XL - 11 packaging extract	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: ✓CS257 E. coli Strain	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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

Gigapack III XL - 11  
packaging extract

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

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

:  CS257 E. coli Strain

Put on appropriate personal protective equipment (see Section 8).

Wild-Type Lambda DNA  
c1857ind 1 Sam7  
Gigapack III XL - 11  
packaging extract

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

:  CS257 E. coli Strain

Potentially biohazardous material. 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.

Wild-Type Lambda DNA  
c1857ind 1 Sam7

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.

Gigapack III XL - 11  
packaging extract

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

:  CS257 E. coli Strain

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

Wild-Type Lambda DNA  
c1857ind 1 Sam7

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

Gigapack III XL - 11  
packaging extract

Store in accordance with local regulations. Store in original container protected from direct sunlight in a

## Section 7. Handling and storage

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>✓</b> CS257 E. coli Strain Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Gigapack III XL - 11 packaging extract</b> Sucrose	<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** : **H**andle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : **B**ased 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

<b>Physical state</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Liquid. Liquid. Liquid.
<b>Colour</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Odour</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Odour threshold</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>pH</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	7 7 8
<b>Melting point</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. 0°C (32°F) Not available.
<b>Boiling point</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. 100°C (212°F) Not available.
<b>Flash point</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Evaporation rate</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Flammability (solid, gas)</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not applicable. Not applicable. Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.

## Section 9. Physical and chemical properties

<b>Vapour pressure</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Vapour density</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Relative density</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Solubility</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	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.
<b>Partition coefficient: n-octanol/water</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Auto-ignition temperature</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Decomposition temperature</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.
<b>Viscosity</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Not available. Not available. Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: ✓CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	The product is stable. The product is stable.  The product is stable.

## Section 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data.  No specific data.
<b>Incompatible materials</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: <input checked="" type="checkbox"/> CS257 E. coli Strain  Wild-Type Lambda DNA c1857ind 1 Sam7  Gigapack III XL - 11 packaging extract	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> CS257 E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Gigapack III XL - 11 packaging extract</b> Sucrose	LD50 Oral	Rat	29700 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> CS257 E. coli Strain 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.

## Section 11. Toxicological information

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

Routes of entry anticipated: Oral, Dermal, Inhalation.  
Not available.

Not available.

### Potential acute health effects

**Eye contact** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

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

**Inhalation** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

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

**Skin contact** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

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

**Ingestion** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

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

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

**Eye contact** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

No specific data.  
No specific data.  
No specific data.

**Inhalation** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

No specific data.  
No specific data.  
No specific data.

**Skin contact** : ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract

No specific data.  
No specific data.  
No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No specific data. No specific data. No specific data.
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### 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>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: ✓CS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 Gigapack III XL - 11 packaging extract	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
✓CS257 E. coli Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
✓CS257 E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
✓CS257 E. coli Strain Glycerol	-1.76	-	low
Gigapack III XL - 11 packaging extract Sucrose	-3.7	-	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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**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

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

No listed substance

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: At least one component is not listed in DSL but all such components are listed in NDSL.
<b>China</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<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>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### History

<b>Date of issue/Date of revision</b>	: 31/12/2017
<b>Date of previous issue</b>	: 27/10/2015.
<b>Version</b>	: 4

<b>Key to abbreviations</b>	: 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)
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## Section 16. Any other relevant information

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
Not classified.	

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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