# SAFETY DATA SHEET



Gigapack III Plus-11 Packaging Extract, Part Number 200206

## **Section 1. Identification**

**Product identifier** 

: Gigapack III Plus-11 Packaging Extract, Part Number 200206

Part no. (chemical kit)

Part no.

Gigapack III packaging extract 200201-41 Wild-Type Lambda DNA c1857ind 1 246203-51

Sam7

VCS257 E. coli Strain 200256-51

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

**Material uses** 

: Analytical reagent.

Gigapack III packaging extract

0 275 ml

Wild-Type Lambda DNA c1857ind 1

 $0.005 \text{ ml} (1.05 \mu \text{g} 0.21 \mu \text{g/µl})$ 

Sam7

VCS257 E. coli Strain 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.

Gigapack III packaging

extract

VCS257 E. coli Strain

Percentage of the mixture consisting of ingredient(s)

of unknown inhalation toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s)

of unknown inhalation toxicity: 10 - 30%

**GHS label elements** 

Signal word

: Gigapack III packaging

extract

No signal word.

Wild-Type Lambda DNA c1857ind 1 Sam7

No signal word.

VCS257 E. coli Strain

No signal word.

**Hazard statements** 

: Gigapack III packaging

No known significant effects or critical hazards.

extract

Wild-Type Lambda DNA

No known significant effects or critical hazards.

c1857ind 1 Sam7 VCS257 E. coli Strain

No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** 

: Gigapack III packaging

extract

Not applicable.

Wild-Type Lambda DNA

c1857ind 1 Sam7

Not applicable.

VCS257 E. coli Strain

Not applicable.

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# Section 2. Hazard(s) identification

Response	•	Gigapack III packaging	Not applicable.
Nooponioo	•	extract	rtot applicable.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable.
		VCS257 E. coli Strain	Not applicable.
Storage	:	Gigapack III packaging extract	Not applicable.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable.
		VCS257 E. coli Strain	Not applicable.
Disposal	:	Gigapack III packaging extract	Not applicable.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable.
		VCS257 E. coli Strain	Not applicable.
Supplemental label elements			
Additional warning phrases	:	Gigapack III packaging extract	Not applicable.
•		Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable.
		VCS257 E. coli Strain	Not applicable.
Other hazards which do not result in classification	:	Gigapack III packaging extract	None known.
		Wild-Type Lambda DNA c1857ind 1 Sam7	None known.
		VCS257 E. coli Strain	None known.

# Section 3. Composition and ingredient information

Substance/mixture

: Gigapack III packaging

extract

Wild-Type Lambda DNA

c1857ind 1 Sam7

VCS257 E. coli Strain

Mixture

Mixture

.....

Mixture

### **CAS** number/other identifiers

Ingredient name	% (w/w)	CAS number
Gigapack III packaging extract Sucrose	≤10	57-50-1
VCS257 E. coli Strain Glycerol	≥10 - ≤30	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** 

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### Section 4. First aid measures

Eye contact : Gigapack III packaging Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. extract Check for and remove any contact lenses. Get medical attention if irritation occurs. Wild-Type Lambda DNA Immediately flush eyes with plenty of water, c1857ind 1 Sam7 occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. VCS257 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. Inhalation : Gigapack III packaging Remove victim to fresh air and keep at rest in a extract position comfortable for breathing. Get medical attention if symptoms occur. Wild-Type Lambda DNA Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical c1857ind 1 Sam7 attention if symptoms occur. VCS257 E. coli Strain Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Skin contact : Gigapack III packaging Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get extract medical attention if symptoms occur. Wild-Type Lambda DNA Flush contaminated skin with plenty of water. c1857ind 1 Sam7 Remove contaminated clothing and shoes. Get medical attention if symptoms occur. VCS257 E. coli Strain Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh Ingestion : Gigapack III packaging extract 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. Wash out mouth with water. Remove victim to fresh Wild-Type Lambda DNA c1857ind 1 Sam7 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. VCS257 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. Most important symptoms/effects, acute and delayed Potential acute health effects **Eye contact** : Gigapack III packaging No known significant effects or critical hazards. extract

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No known significant effects or critical hazards.

No known significant effects or critical hazards.

Wild-Type Lambda DNA

c1857ind 1 Sam7 VCS257 E. coli Strain

### Section 4. First aid measures

Inhalation : Gigapack III packaging No known significant effects or critical hazards. extract Wild-Type Lambda DNA No known significant effects or critical hazards. c1857ind 1 Sam7 VCS257 E. coli Strain No known significant effects or critical hazards. **Skin contact** : Gigapack III packaging No known significant effects or critical hazards. extract Wild-Type Lambda DNA No known significant effects or critical hazards. c1857ind 1 Sam7 VCS257 E. coli Strain No known significant effects or critical hazards. Ingestion Gigapack III packaging No known significant effects or critical hazards. extract Wild-Type Lambda DNA No known significant effects or critical hazards. c1857ind 1 Sam7 VCS257 E. coli Strain No known significant effects or critical hazards. Over-exposure signs/symptoms : Gigapack III packaging **Eye contact** No specific data. extract Wild-Type Lambda DNA No specific data. c1857ind 1 Sam7 VCS257 E. coli Strain No specific data. Inhalation Gigapack III packaging No specific data.

extract
Wild-Type Lambda DNA
No specific data.
c1857ind 1 Sam7
VCS257 E. coli Strain
No specific data.

Skin contact : Gigapack III packaging No specific data. extract

Wild-Type Lambda DNA
c1857ind 1 Sam7
VCS257 E. coli Strain
No specific data.
Gigapack III packaging
No specific data.

Ingestion : Gigapack III packaging No specific data.

extract

extract
Wild-Type Lambda DNA
No specific data.
c1857ind 1 Sam7

VCS257 E. coli Strain No specific data.

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

Gigapack III packaging

Notes to physician : Gigapack III packaging Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Wild-Type Lambda DNA Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

VCS257 E. coli Strain Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

No specific treatment.

specialist immediately if large quantities have been ingested or inhaled

ingested or inhaled.

extract

Wild-Type Lambda DNA No specific treatment. c1857ind 1 Sam7

VCS257 E. coli Strain No specific treatment.

Protection of first-aiders : Gigapack III packaging No action shall be taken involving any personal risk or without suitable training.

Wild-Type Lambda DNA
c1857ind 1 Sam7

No action shall be taken involving any personal risk or without suitable training.

VCS257 E. coli Strain

No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

**Specific treatments** 

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# Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing media

Gigapack III packaging extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

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.

Unsuitable extinguishing media

: Gigapack III packaging extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

None known.

None known.

None known.

Specific hazards arising from the chemical

: Gigapack III packaging extract Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

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.

**Hazardous thermal** decomposition products Gigapack III packaging extract

Decomposition products may include the following materials:

carbon dioxide carbon monoxide No specific data.

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

**Special protective actions** for fire-fighters

: Gigapack III 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.

Wild-Type Lambda DNA c1857ind 1 Sam7

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

VCS257 E. coli Strain

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.

**Special protective** equipment for fire-fighters : Gigapack III 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.

Wild-Type Lambda DNA c1857ind 1 Sam7

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

VCS257 E. coli Strain

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

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### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Gigapack III 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.

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.

VCS257 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.

For emergency responders : Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7

VCS257 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". 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". 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".

**Environmental precautions** 

: Gigapack III packaging extract

Wild-Type Lambda DNA c1857ind 1 Sam7

VCS257 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).

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).

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).

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

#### Methods and material for containment and cleaning up

Methods for cleaning up

: Gigapack III packaging extract

disposal contractor.

Wild-Type Lambda DNA c1857ind 1 Sam7

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

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### Section 6. Accidental release measures

VCS257 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.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: Gigapack III packaging extract Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

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

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

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

Advice on general occupational hygiene : Gigapack III packaging extract

Wild-Type Lambda DNA

c1857ind 1 Sam7

VCS257 E. coli Strain

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. 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. 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.

Conditions for safe storage, : Sigapack III packaging including any incompatibilities

extract

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

VCS257 E. coli Strain

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# 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
Gigapack III packaging extract Sucrose	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.
VCS257 E. coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.

# Appropriate engineering controls

# Environmental exposure controls

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

### **Individual protection measures**

#### **Hygiene measures**

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

#### **Eye/face protection**

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

# Skin protection Hand protection

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

#### **Body protection**

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

#### Other skin protection

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

### Respiratory protection

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

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# Section 9. Physical and chemical properties

Section 9. Physica	al	and chemical pro	perties
<u>Appearance</u>			
Physical state	:	Gigapack III packaging extract	Liquid.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Liquid.
		VCS257 E. coli Strain	Liquid.
Colour	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Odour	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Odour threshold	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
рН	:	Gigapack III packaging extract	8
		Wild-Type Lambda DNA c1857ind 1 Sam7	7
		VCS257 E. coli Strain	7
Melting point	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	0°C (32°F)
		VCS257 E. coli Strain	Not available.
<b>Boiling point</b>	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	100°C (212°F)
		VCS257 E. coli Strain	Not available.
Flash point	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Evaporation rate	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Flammability (solid, gas)	:	Gigapack III packaging extract	Not applicable.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable.
		VCS257 E. coli Strain	Not applicable.
Lower and upper explosive	:	Gigapack III packaging	Not available.

extract

Wild-Type Lambda DNA

c1857ind 1 Sam7 VCS257 E. coli Strain

(flammable) limits

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Not available.

Not available.

# Section 9. Physical and chemical properties

		•	•
Vapour pressure	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Vapour density	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Relative density	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Solubility	:	Gigapack III packaging extract	Easily soluble in the following materials: cold water
		Wild-Type Lambda DNA	and hot water. Easily soluble in the following materials: cold water
		c1857ind 1 Sam7	and hot water.
		VCS257 E. coli Strain	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Auto-ignition temperature	:	extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Decomposition temperature	:	extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Viscosity	:	Gigapack III packaging extract	Not available.
		Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
		VCS257 E. coli Strain	Not available.
Section 10. Stabili	ty	and reactivity	

Reactivity	: Gigapack III packaging extract Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain	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.
Chemical stability	: Gigapack III packaging extract	The product is stable.
	Wild-Type Lambda DNA c1857ind 1 Sam7	The product is stable.
	VCS257 F coli Strain	The product is stable

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## Section 10. Stability and reactivity

Possibility of hazardous reactions

: Gigapack III packaging extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

No specific data.

No specific data.

No specific data.

Incompatible materials

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

**Hazardous decomposition** products

: Gigapack III packaging

Under normal conditions of storage and use. hazardous decomposition products should not be

produced.

Wild-Type Lambda DNA

c1857ind 1 Sam7

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

VCS257 E. coli Strain

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
Gigapack III packaging extract Sucrose	LD50 Oral	Rat	29700 mg/kg	-
VCS257 E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
VCS257 E. coli Strain Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	24 hours 500 milligrams 24 hours 500 milligrams	

### **Sensitisation**

Not available.

#### **Mutagenicity**

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** 

: Not available.

Reproductive toxicity

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

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## **Section 11. Toxicological information**

**Conclusion/Summary** : 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

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7

VCS257 E. coli Strain

Routes of entry anticipated: Oral, Dermal, Inhalation.

No known significant effects or critical hazards.

Potential acute health effects

**Eye contact** 

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7

No known significant effects or critical hazards. VCS257 E. coli Strain No known significant effects or critical hazards.

Not available.

Not available.

Inhalation

Skin contact

Ingestion

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7

No known significant effects or critical hazards.

VCS257 E. coli Strain : Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

: Gigapack III packaging

extract Wild-Type Lambda DNA

c1857ind 1 Sam7 VCS257 E. coli Strain 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

: Gigapack III packaging extract

No specific data.

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

No specific data.

Inhalation

: Gigapack III packaging

No specific data. No specific data.

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

No specific data.

**Skin contact** 

: Gigapack III packaging

No specific data. No specific data.

extract

Wild-Type Lambda DNA c1857ind 1 Sam7

No specific data.

Ingestion

VCS257 E. coli Strain : Gigapack III packaging No specific data. No specific data.

extract Wild-Type Lambda DNA

No specific data.

c1857ind 1 Sam7 VCS257 E. coli Strain

No specific data.

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# **Section 11. Toxicological information**

### 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

Carcinogenicity

Mutagenicity

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Potential chronic health effects

**General** : Gigapack III packaging

extract

Wild-Type Lambda DNA

c1857ind 1 Sam7 VCS257 E. coli Strain

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

: Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

**Teratogenicity** : Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

**Developmental effects** 

: Gigapack III packaging extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

**Fertility effects** : Gigapack III packaging

extract

Wild-Type Lambda DNA c1857ind 1 Sam7 VCS257 E. coli Strain

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

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No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

### **Numerical measures of toxicity Acute toxicity estimates**

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
VCS257 E. coli Strain			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

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## Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
VCS257 E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Gigapack III packaging extract Sucrose	-3.7	-	low
VCS257 E. coli Strain Glycerol	-1.76	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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 nonrecyclable 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 : Not available. to Annex II of Marpol and

the IBC Code

# 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

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## Section 15. Regulatory information

Not listed

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

**Inventory list** 

Australia : Not determined.

Canada : At least one component is not listed in DSL but all such components are listed in

NDSL.

China : Not determined.

Europe : All components are listed or exempted.
 Japan : Japan inventory (ENCS): Not determined.
 Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

**Taiwan** : All components are listed or exempted.

Turkey: Not determined.

Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

# Section 16. Any other relevant information

**History** 

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**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
Not classified.	

References : Not available.

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# Section 16. Any other relevant information

**▼** Indicates information that has changed from previously issued version.

### **Notice to reader**

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