

SAFETY DATA SHEET

Lambda EMBL3 - BamH I Gigapack III Gold Cloning Kit, Part Number 241612

Section 1. Identification

Product identifier	: Lambda EMBL3 - BamH I Gigapack III Gold Cloning Kit, Part Number 241612														
Part no. (chemical kit)	: 241612														
Part no.	: <table border="0"> <tr> <td>XL1-Blue MRA E.coli Strain</td><td>200302-81</td></tr> <tr> <td>XL1-Blue MRA (p2) E.coli Strain</td><td>200303-81</td></tr> <tr> <td>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated</td><td>241211-51</td></tr> <tr> <td>pME/Bam HI Test Insert</td><td>210200-53</td></tr> <tr> <td>Gigapack III packaging extract</td><td>200201-41</td></tr> <tr> <td>VCS257 E. coli Strain</td><td>200256-51</td></tr> <tr> <td>Wild-Type Lambda DNA c1857ind 1 Sam7</td><td>246203-51</td></tr> </table>	XL1-Blue MRA E.coli Strain	200302-81	XL1-Blue MRA (p2) E.coli Strain	200303-81	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	241211-51	pME/Bam HI Test Insert	210200-53	Gigapack III packaging extract	200201-41	VCS257 E. coli Strain	200256-51	Wild-Type Lambda DNA c1857ind 1 Sam7	246203-51
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VCS257 E. coli Strain	200256-51														
Wild-Type Lambda DNA c1857ind 1 Sam7	246203-51														

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

Material uses	: Analytical reagent.														
	<table border="0"> <tr> <td><input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain</td><td>0.5 ml</td></tr> <tr> <td>XL1-Blue MRA (p2) E.coli Strain</td><td>0.5 ml</td></tr> <tr> <td>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated</td><td>0.01 ml (10 µg 1 µg/µl)</td></tr> <tr> <td>pME/Bam HI Test Insert</td><td>0.01 ml (2.5 µg 0.25 µg/µl)</td></tr> <tr> <td>Gigapack III packaging extract</td><td>0.275 ml (11 x 0.025 ml)</td></tr> <tr> <td>VCS257 E. coli Strain</td><td>1 ml</td></tr> <tr> <td>Wild-Type Lambda DNA c1857ind 1 Sam7</td><td>0.005 ml (1.05 µg 0.21 µg/µl)</td></tr> </table>	<input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	0.5 ml	XL1-Blue MRA (p2) E.coli Strain	0.5 ml	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	0.01 ml (10 µg 1 µg/µl)	pME/Bam HI Test Insert	0.01 ml (2.5 µg 0.25 µg/µl)	Gigapack III packaging extract	0.275 ml (11 x 0.025 ml)	VCS257 E. coli Strain	1 ml	Wild-Type Lambda DNA c1857ind 1 Sam7	0.005 ml (1.05 µg 0.21 µg/µl)
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Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
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Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994
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Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

<input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
XL1-Blue MRA (p2) E.coli Strain	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
Gigapack III packaging extract	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
VCS257 E. coli Strain	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%

GHS label elements

Section 2. Hazard(s) identification

Signal word	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7	No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word.
Hazard statements	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Section 2. Hazard(s) identification

Disposal	:	<div> <div>XL1-Blue MRA E.coli Strain</div> <div>XL1-Blue MRA (p2) E.coli Strain</div> <div>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract</div> <div>VCS257 E. coli Strain</div> <div>Wild-Type Lambda DNA c1857ind 1 Sam7</div> </div>	<div>Not applicable.</div> <div>Not applicable.</div> <div>Not applicable.</div> <div>Not applicable.</div> <div>Not applicable.</div>
Supplemental label elements			
Additional warning phrases	:	<div> <div>XL1-Blue MRA E.coli Strain</div> <div>XL1-Blue MRA (p2) E.coli Strain</div> <div>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract</div> <div>VCS257 E. coli Strain</div> <div>Wild-Type Lambda DNA c1857ind 1 Sam7</div> </div>	<div>Not applicable.</div> <div>Not applicable.</div> <div>Not applicable.</div> <div>Not applicable.</div> <div>Not applicable.</div>
Other hazards which do not result in classification	:	<div> <div>XL1-Blue MRA E.coli Strain</div> <div>XL1-Blue MRA (p2) E.coli Strain</div> <div>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract</div> <div>VCS257 E. coli Strain</div> <div>Wild-Type Lambda DNA c1857ind 1 Sam7</div> </div>	<div>None known.</div> <div>None known.</div> <div>None known.</div> <div>None known.</div> <div>None known.</div>

Section 3. Composition and ingredient information

Substance/mixture	:	<div> <div>XL1-Blue MRA E.coli Strain</div> <div>XL1-Blue MRA (p2) E.coli Strain</div> <div>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract</div> <div>VCS257 E. coli Strain</div> <div>Wild-Type Lambda DNA c1857ind 1 Sam7</div> </div>	<div>Mixture</div> <div>Mixture</div> <div>Mixture</div> <div>Mixture</div> <div>Mixture</div>
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CAS number/other identifiers

Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
XL1-Blue MRA E.coli Strain Glycerol	≥10 - ≤30	56-81-5
XL1-Blue MRA (p2) E.coli Strain Glycerol	≥10 - ≤30	56-81-5
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

Eye contact	: XL1-Blue MRA 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.
	XL1-Blue MRA (p2) 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.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	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.
	pME/Bam HI Test Insert	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 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.
	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.
	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.
Inhalation	: XL1-Blue MRA E.coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	XL1-Blue MRA (p2) E.coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pME/Bam HI Test Insert	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Gigapack III packaging	Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

	extract	position comfortable for breathing. Get medical 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.
	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.
Skin contact	:  XL1-Blue MRA E.coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XL1-Blue MRA (p2) E.coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Gigapack III packaging extract	Flush contaminated skin with plenty of water. 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.
	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.
	:  XL1-Blue MRA 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.
Ingestion	XL1-Blue MRA (p2) 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.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	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.
	pME/Bam HI Test Insert	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 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.
		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.

Section 4. First aid measures

VCS257 E. coli Strain

attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

- : ☒ XL1-Blue MRA E.coli Strain No known significant effects or critical hazards.
- XL1-Blue MRA (p2) E.coli Strain No known significant effects or critical hazards.
- Lambda EMBL3 Vector No known significant effects or critical hazards.
- Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert No known significant effects or critical hazards.
- Gigapack III packaging extract No known significant effects or critical hazards.
- VCS257 E. coli Strain No known significant effects or critical hazards.
- Wild-Type Lambda DNA c1857ind 1 Sam7 No known significant effects or critical hazards.

Inhalation

- : ☒ XL1-Blue MRA E.coli Strain No known significant effects or critical hazards.
- XL1-Blue MRA (p2) E.coli Strain No known significant effects or critical hazards.
- Lambda EMBL3 Vector No known significant effects or critical hazards.
- Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert No known significant effects or critical hazards.
- Gigapack III packaging extract No known significant effects or critical hazards.
- VCS257 E. coli Strain No known significant effects or critical hazards.
- Wild-Type Lambda DNA c1857ind 1 Sam7 No known significant effects or critical hazards.

Skin contact

- : ☒ XL1-Blue MRA E.coli Strain No known significant effects or critical hazards.
- XL1-Blue MRA (p2) E.coli Strain No known significant effects or critical hazards.
- Lambda EMBL3 Vector No known significant effects or critical hazards.
- Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert No known significant effects or critical hazards.
- Gigapack III packaging extract No known significant effects or critical hazards.
- VCS257 E. coli Strain No known significant effects or critical hazards.
- Wild-Type Lambda DNA c1857ind 1 Sam7 No known significant effects or critical hazards.

Ingestion

- : ☒ XL1-Blue MRA E.coli Strain No known significant effects or critical hazards.
- XL1-Blue MRA (p2) E.coli Strain No known significant effects or critical hazards.
- Lambda EMBL3 Vector No known significant effects or critical hazards.
- Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert No known significant effects or critical hazards.

Section 4. First aid measures

Gigapack III packaging extract	No known significant effects or critical hazards.
VCS257 E. coli Strain	No known significant effects or critical hazards.
Wild-Type Lambda DNA	No known significant effects or critical hazards.
c1857ind 1 Sam7	

Over-exposure signs/symptoms

Eye contact	:	<p> <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 </p>	<p> No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. </p>
Inhalation	:	<p> <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 </p>	<p> No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. </p>
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Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

Notes to physician	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XL1-Blue MRA (p2) E.coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Gigapack III packaging extract	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 ingested or inhaled.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No specific treatment.
	XL1-Blue MRA (p2) E.coli Strain	No specific treatment.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No specific treatment.
	Gigapack III packaging extract	No specific treatment.
	VCS257 E. coli Strain	No specific treatment.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No specific treatment.
Protection of first-aiders	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No action shall be taken involving any personal risk or without suitable training.
	XL1-Blue MRA (p2) E.coli Strain	No action shall be taken involving any personal risk or without suitable training.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No action shall be taken involving any personal risk or without suitable training.
	Gigapack III packaging extract	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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue MRA (p2) E.coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Use an extinguishing agent suitable for the surrounding fire.
		Use an extinguishing agent suitable for the

Section 5. Firefighting measures

Unsuitable extinguishing media	Gigapack III packaging extract	surrounding fire.
	VCS257 E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue MRA E.coli Strain	None known.
	XL1-Blue MRA (p2) E.coli Strain	None known.
Specific hazards arising from the chemical	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	None known.
	Gigapack III packaging extract	None known.
	VCS257 E. coli Strain	None known.
	Wild-Type Lambda DNA c1857ind 1 Sam7	None known.
	XL1-Blue MRA E.coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	XL1-Blue MRA (p2) E.coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	In a fire or if heated, a pressure increase will occur and the container may burst.
	Gigapack III packaging extract	In a fire or if heated, a pressure increase will occur and the container may burst.
	VCS257 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
	Wild-Type Lambda DNA c1857ind 1 Sam7	In a fire or if heated, a pressure increase will occur and the container may burst.
	XL1-Blue MRA E.coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	XL1-Blue MRA (p2) E.coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No specific data.
	Gigapack III packaging extract	No specific data.
	VCS257 E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	Wild-Type Lambda DNA	No specific data.

Section 5. Firefighting measures

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Special protective actions for fire-fighters

:  XL1-Blue MRA E.coli Strain

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.

XL1-Blue MRA (p2) E.coli Strain

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.

Lambda EMBL3 Vector
Double Digested With EcoR
I And BamH I CIAP Treated

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.

pME/Bam HI Test Insert

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.

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.

VCS257 E. coli Strain

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 without suitable training.

Special protective equipment for fire-fighters

:  XL1-Blue MRA 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.

XL1-Blue MRA (p2) 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.

Lambda EMBL3 Vector
Double Digested With EcoR
I And BamH I CIAP Treated

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

pME/Bam HI Test Insert

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

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.

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.


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.


Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel


:  XL1-Blue MRA 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.
XL1-Blue MRA (p2) 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.
Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	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.
pME/Bam HI Test Insert	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 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.
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.
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.

For emergency responders


:  XL1-Blue MRA 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".
XL1-Blue MRA (p2) 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".
Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	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".
pME/Bam HI Test Insert	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 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

Section 6. Accidental release measures

VCS257 E. coli Strain	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".
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".

Environmental precautions :  XL1-Blue MRA 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).
XL1-Blue MRA (p2) 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).
Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	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).
pME/Bam HI Test Insert	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 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).
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).
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).

Methods and material for containment and cleaning up

Methods for cleaning up :  XL1-Blue MRA 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.
XL1-Blue MRA (p2) 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.
Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated	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

Section 6. Accidental release measures

pME/Bam HI Test Insert	inert dry material and place in an appropriate waste 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.
Gigapack III 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.
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.
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 7. Handling and storage

Precautions for safe handling

Protective measures


XL1-Blue MRA E.coli Strain	Put on appropriate personal protective equipment (see Section 8).
XL1-Blue MRA (p2) E.coli Strain	Put on appropriate personal protective equipment (see Section 8).
Lambda EMBL3 Vector	Put on appropriate personal protective equipment (see Section 8).
Double Digested With EcoR I And BamH I CIAP Treated	Put on appropriate personal protective equipment (see Section 8).
pME/Bam HI Test Insert	Put on appropriate personal protective equipment (see Section 8).
Gigapack III packaging extract	Put on appropriate personal protective equipment (see Section 8).
VCS257 E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
Wild-Type Lambda DNA c1857ind 1 Sam7	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

XL1-Blue MRA 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.
XL1-Blue MRA (p2) 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.
Lambda EMBL3 Vector	Eating, drinking and smoking should be prohibited in

Section 7. Handling and storage

Double Digested With EcoR I And BamH I CIAP Treated	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.
pME/Bam HI Test Insert	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 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.
VCS257 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.

Conditions for safe storage, including any incompatibilities :  XL1-Blue MRA 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.

XL1-Blue MRA (p2) 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.

Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated

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

Section 7. Handling and storage

pME/Bam HI Test Insert

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 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 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.

Gigapack III packaging extract

VCS257 E. coli Strain

Wild-Type Lambda DNA
c1857ind 1 Sam7

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
XL1-Blue MRA E.coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
XL1-Blue MRA (p2) E.coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Gigapack III packaging extract Sucrose	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
VCS257 E. coli Strain Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 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** : Handle 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** : 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	: XL1-Blue MRA E.coli Strain	Liquid.
	XL1-Blue MRA (p2) E.coli Strain	Liquid.
	Lambda EMBL3 Vector	Liquid.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Liquid.
	Gigapack III packaging extract	Liquid.
	VCS257 E. coli Strain	Liquid.
	Wild-Type Lambda DNA	Liquid.
	c1857ind 1 Sam7	
Colour	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	
Odour	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	
Odour threshold	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	
pH	: XL1-Blue MRA E.coli Strain	7
	XL1-Blue MRA (p2) E.coli Strain	7
	Lambda EMBL3 Vector	7
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	7.5
	Gigapack III packaging extract	8
	VCS257 E. coli Strain	7
	Wild-Type Lambda DNA	7
	c1857ind 1 Sam7	

Section 9. Physical and chemical properties

Melting point	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	0°C (32°F)
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	0°C (32°F)
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	0°C (32°F)
Boiling point	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	100°C (212°F)
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	100°C (212°F)
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	100°C (212°F)
Flash point	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
Evaporation rate	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
Flammability (solid, gas)	: XL1-Blue MRA E.coli Strain	Not applicable.
	XL1-Blue MRA (p2) E.coli Strain	Not applicable.
	Lambda EMBL3 Vector	Not applicable.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not applicable.
	Gigapack III packaging extract	Not applicable.
	VCS257 E. coli Strain	Not applicable.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not applicable.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
Vapour pressure	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
Vapour density	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
Relative density	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA c1857ind 1 Sam7	Not available.
Solubility	: XL1-Blue MRA E.coli Strain	Soluble in the following materials: cold water and hot water.
	XL1-Blue MRA (p2) E.coli Strain	Soluble in the following materials: cold water and hot water.
	Lambda EMBL3 Vector	Easily soluble in the following materials: cold water and hot water.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Easily soluble in the following materials: cold water and hot water.
	Gigapack III packaging extract	Easily soluble in the following materials: cold water and hot water.
	VCS257 E. coli Strain	Easily soluble in the following materials: cold water and hot water.
	Wild-Type Lambda DNA	Easily soluble in the following materials: cold water

Section 9. Physical and chemical properties

	c1857ind 1 Sam7	and hot water.
Partition coefficient: n-octanol/water	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	
Auto-ignition temperature	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	
Decomposition temperature	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	
Viscosity	: XL1-Blue MRA E.coli Strain	Not available.
	XL1-Blue MRA (p2) E.coli Strain	Not available.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Not available.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	


Section 10. Stability and reactivity

Reactivity	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No specific test data related to reactivity available for this product or its ingredients.
	XL1-Blue MRA (p2) E.coli Strain	No specific test data related to reactivity available for this product or its ingredients.
	Lambda EMBL3 Vector	No specific test data related to reactivity available for this product or its ingredients.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No specific test data related to reactivity available for this product or its ingredients.
	Gigapack III packaging	No specific test data related to reactivity available for


Section 10. Stability and reactivity

extract	this product or its ingredients.
VCS257 E. coli Strain	No specific test data related to reactivity available for this product or its ingredients.
Wild-Type Lambda DNA	No specific test data related to reactivity available for this product or its ingredients.
c1857ind 1 Sam7	No specific test data related to reactivity available for this product or its ingredients.


Chemical stability

:  XL1-Blue MRA E.coli Strain	The product is stable.
XL1-Blue MRA (p2) E.coli Strain	The product is stable.
Lambda EMBL3 Vector	The product is stable.
Double Digested With EcoR I And BamH I CIAP Treated	
pME/Bam HI Test Insert	The product is stable.
Gigapack III packaging extract	The product is stable.
VCS257 E. coli Strain	The product is stable.
Wild-Type Lambda DNA	The product is stable.
c1857ind 1 Sam7	


Possibility of hazardous reactions

:  XL1-Blue MRA E.coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.
XL1-Blue MRA (p2) E.coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.
Lambda EMBL3 Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
Double Digested With EcoR I And BamH I CIAP Treated	
pME/Bam HI Test Insert	Under normal conditions of storage and use, hazardous reactions will not occur.
Gigapack III packaging extract	Under normal conditions of storage and use, hazardous reactions will not occur.
VCS257 E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.
Wild-Type Lambda DNA	Under normal conditions of storage and use, hazardous reactions will not occur.
c1857ind 1 Sam7	


Conditions to avoid

:  XL1-Blue MRA E.coli Strain	No specific data.
XL1-Blue MRA (p2) E.coli Strain	No specific data.
Lambda EMBL3 Vector	No specific data.
Double Digested With EcoR I And BamH I CIAP Treated	
pME/Bam HI Test Insert	No specific data.
Gigapack III packaging extract	No specific data.
VCS257 E. coli Strain	No specific data.
Wild-Type Lambda DNA	No specific data.
c1857ind 1 Sam7	

Incompatible materials

:  XL1-Blue MRA E.coli Strain	May react or be incompatible with oxidising materials.
XL1-Blue MRA (p2) E.coli Strain	May react or be incompatible with oxidising materials.
Lambda EMBL3 Vector	May react or be incompatible with oxidising materials.
Double Digested With EcoR I And BamH I CIAP Treated	
pME/Bam HI Test Insert	May react or be incompatible with oxidising materials.
Gigapack III packaging extract	May react or be incompatible with oxidising materials.
VCS257 E. coli Strain	May react or be incompatible with oxidising materials.
Wild-Type Lambda DNA	May react or be incompatible with oxidising materials.
c1857ind 1 Sam7	


Section 10. Stability and reactivity

Hazardous decomposition products	:  XL1-Blue MRA E.coli Strain	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XL1-Blue MRA (p2) E.coli Strain	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Gigapack III packaging extract	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.
	Wild-Type Lambda DNA c1857ind 1 Sam7	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
 XL1-Blue MRA E.coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-
XL1-Blue MRA (p2) E.coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-
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
 XL1-Blue MRA E.coli Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
XL1-Blue MRA (p2) E.coli Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
VCS257 E. coli Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Section 11. Toxicological information

	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
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Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	XL1-Blue MRA E.coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.
	XL1-Blue MRA (p2) E.coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lambda EMBL3 Vector	Not available.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	Not available.
	Gigapack III packaging extract	Not available.
	VCS257 E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Wild-Type Lambda DNA	Not available.
	c1857ind 1 Sam7	

Potential acute health effects

Eye contact	XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
Inhalation	Wild-Type Lambda DNA	No known significant effects or critical hazards.
	c1857ind 1 Sam7	
	XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA	No known significant effects or critical hazards.

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	c1857ind 1 Sam7	
Skin contact	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
Ingestion	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA	No known significant effects or critical hazards.
	c1857ind 1 Sam7	
	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA	No known significant effects or critical hazards.
	c1857ind 1 Sam7	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No specific data.
	XL1-Blue MRA (p2) E.coli Strain	No specific data.
	Lambda EMBL3 Vector	No specific data.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No specific data.
	Gigapack III packaging extract	No specific data.
Inhalation	VCS257 E. coli Strain	No specific data.
	Wild-Type Lambda DNA	No specific data.
	c1857ind 1 Sam7	
	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No specific data.
	XL1-Blue MRA (p2) E.coli Strain	No specific data.
	Lambda EMBL3 Vector	No specific data.
Skin contact	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No specific data.
	Gigapack III packaging extract	No specific data.
	VCS257 E. coli Strain	No specific data.
	Wild-Type Lambda DNA	No specific data.
	c1857ind 1 Sam7	
	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No specific data.
	XL1-Blue MRA (p2) E.coli Strain	No specific data.
	Lambda EMBL3 Vector	No specific data.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No specific data.
	Gigapack III packaging extract	No specific data.
	VCS257 E. coli Strain	No specific data.
	Wild-Type Lambda DNA	No specific data.

Section 11. Toxicological information

Ingestion	c1857ind 1 Sam7	
	: <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain	No specific data.
	XL1-Blue MRA (p2) E.coli Strain	No specific data.
	Lambda EMBL3 Vector	No specific data.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No specific data.
	Gigapack III packaging extract	No specific data.
	VCS257 E. coli Strain	No specific data.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards.

Carcinogenicity	: <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards.

Mutagenicity	: <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA c1857ind 1 Sam7	No known significant effects or critical hazards.

Section 11. Toxicological information

Teratogenicity	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
Developmental effects	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA	No known significant effects or critical hazards.
	c1857ind 1 Sam7	
	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
Fertility effects	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA	No known significant effects or critical hazards.
	c1857ind 1 Sam7	
Fertility effects	: <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	No known significant effects or critical hazards.
	XL1-Blue MRA (p2) E.coli Strain	No known significant effects or critical hazards.
	Lambda EMBL3 Vector	No known significant effects or critical hazards.
	Double Digested With EcoR I And BamH I CIAP Treated	
	pME/Bam HI Test Insert	No known significant effects or critical hazards.
	Gigapack III packaging extract	No known significant effects or critical hazards.
	VCS257 E. coli Strain	No known significant effects or critical hazards.
	Wild-Type Lambda DNA	No known significant effects or critical hazards.
	c1857ind 1 Sam7	

Numerical measures of toxicity

Acute toxicity estimates

Not available.


Section 12. Ecological information

Toxicity


Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Glycerol			
XL1-Blue MRA (p2) E.coli Strain			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
VCS257 E. coli Strain	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Glycerol			

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
 XL1-Blue MRA E.coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
XL1-Blue MRA (p2) E.coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
VCS257 E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
 XL1-Blue MRA E.coli Strain Glycerol	-1.76	-	low
XL1-Blue MRA (p2) E.coli Strain Glycerol	-1.76	-	low
Gigapack III packaging extract Sucrose	-3.7	-	low
VCS257 E. coli Strain Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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

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.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 30/04/2018

Date of previous issue : 29/02/2016

Version : 4

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.

Indicates information that has changed from previously issued version.

Notice to reader

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