

# SAFETY DATA SHEET

pCMV-Tag1 Epitope Tagging Mammalian Expression Vectors, Part Number 211170

## Section 1. Identification

<b>Product identifier</b>	: pCMV-Tag1 Epitope Tagging Mammalian Expression Vectors, Part Number 211170
<b>Part no. (chemical kit)</b>	: 211170
<b>Part no.</b>	: pCMV-Tag 1 Mammalian Expression Vector 211170-51
	pCMV-Tag 1 Control Vector 211170-52
	XL1-Blue E. coli Strain 200268-81

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

<b>Material uses</b>	: Analytical reagent.
	pCMV-Tag 1 Mammalian Expression Vector 20 µl (20 µg 1 µg/µl)
	pCMV-Tag 1 Control Vector 10 µl (10 µg 1 µg/µl)
	XL1-Blue E. coli Strain 500 µl

<b>Supplier/Manufacturer</b>	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
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<b>Emergency telephone number (with hours of operation)</b>	: CHEMTREC®: +(61)-290372994
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## Section 2. Hazard(s) identification

### Classification of the substance or mixture

Not classified.

### GHS label elements

<b>Signal word</b>	: pCMV-Tag 1 Mammalian Expression Vector No signal word.
	pCMV-Tag 1 Control Vector No signal word.
	XL1-Blue E. coli Strain No signal word.
<b>Hazard statements</b>	: pCMV-Tag 1 Mammalian Expression Vector No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector No known significant effects or critical hazards.
	XL1-Blue E. coli Strain No known significant effects or critical hazards.

### Precautionary statements

<b>Prevention</b>	: pCMV-Tag 1 Mammalian Expression Vector Not applicable.
	pCMV-Tag 1 Control Vector Not applicable.
	XL1-Blue E. coli Strain Not applicable.
<b>Response</b>	: pCMV-Tag 1 Mammalian Expression Vector Not applicable.
	pCMV-Tag 1 Control Vector Not applicable.
	XL1-Blue E. coli Strain Not applicable.
<b>Storage</b>	: pCMV-Tag 1 Mammalian Expression Vector Not applicable.
	pCMV-Tag 1 Control Vector Not applicable.
	XL1-Blue E. coli Strain Not applicable.

## Section 2. Hazard(s) identification

<b>Disposal</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not applicable.
	pCMV-Tag 1 Control Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
<b>Supplemental label elements</b>		
<b>Additional warning phrases</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not applicable.
	pCMV-Tag 1 Control Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
<b>Other hazards which do not result in classification</b>	: pCMV-Tag 1 Mammalian Expression Vector	None known.
	pCMV-Tag 1 Control Vector	None known.
	XL1-Blue E. coli Strain	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: pCMV-Tag 1 Mammalian Expression Vector	Mixture
	pCMV-Tag 1 Control Vector	Mixture
	XL1-Blue E. coli Strain	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
XL1-Blue 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

<b>Eye contact</b>	: pCMV-Tag 1 Mammalian Expression Vector	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.
	pCMV-Tag 1 Control Vector	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 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.
<b>Inhalation</b>	: pCMV-Tag 1 Mammalian Expression Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pCMV-Tag 1 Control Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	XL1-Blue E. coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

## Section 4. First aid measures

<b>Skin contact</b>	: pCMV-Tag 1 Mammalian Expression Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCMV-Tag 1 Control Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	XL1-Blue E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: pCMV-Tag 1 Mammalian Expression Vector	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.
	pCMV-Tag 1 Control Vector	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.
	XL1-Blue 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

<b>Eye contact</b>	: pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Inhalation</b>	: pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Skin contact</b>	: pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Ingestion</b>	: pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Inhalation</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Skin contact</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.

## Section 4. First aid measures

<b>Ingestion</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>		
<b>Notes to physician</b>	: pCMV-Tag 1 Mammalian Expression Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV-Tag 1 Control Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XL1-Blue E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific treatment.
	pCMV-Tag 1 Control Vector	No specific treatment.
	XL1-Blue E. coli Strain	No specific treatment.
<b>Protection of first-aiders</b>	: pCMV-Tag 1 Mammalian Expression Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-Tag 1 Control Vector	No action shall be taken involving any personal risk or without suitable training.
	XL1-Blue E. coli Strain	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: pCMV-Tag 1 Mammalian Expression Vector	Use an extinguishing agent suitable for the surrounding fire.
	pCMV-Tag 1 Control Vector	Use an extinguishing agent suitable for the surrounding fire.
	XL1-Blue E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: pCMV-Tag 1 Mammalian Expression Vector	None known.
	pCMV-Tag 1 Control Vector	None known.
	XL1-Blue E. coli Strain	None known.
<b>Specific hazards arising from the chemical</b>	: pCMV-Tag 1 Mammalian Expression Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV-Tag 1 Control Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	XL1-Blue E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	: pCMV-Tag 1 Mammalian Expression Vector	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.
	pCMV-Tag 1 Control Vector	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 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.
<b>Special protective equipment for fire-fighters</b>	: pCMV-Tag 1 Mammalian Expression Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pCMV-Tag 1 Control Vector	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 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: pCMV-Tag 1 Mammalian Expression Vector	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.
	pCMV-Tag 1 Control Vector	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 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.
<b>For emergency responders</b>	: pCMV-Tag 1 Mammalian Expression Vector	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".
	pCMV-Tag 1 Control Vector	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 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".

## Section 6. Accidental release measures

<b>Environmental precautions</b>	pCMV-Tag 1 Mammalian Expression Vector	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).
	pCMV-Tag 1 Control Vector	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 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).

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	pCMV-Tag 1 Mammalian Expression Vector	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.
	pCMV-Tag 1 Control Vector	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 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

<b>Protective measures</b>	pCMV-Tag 1 Mammalian Expression Vector	Put on appropriate personal protective equipment (see Section 8).
	pCMV-Tag 1 Control Vector	Put on appropriate personal protective equipment (see Section 8).
	XL1-Blue E. coli Strain	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	pCMV-Tag 1 Mammalian Expression Vector	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.
	pCMV-Tag 1 Control Vector	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 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.



## Section 7. Handling and storage

See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : pCMV-Tag 1 Mammalian Expression Vector

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.

pCMV-Tag 1 Control Vector

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 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.

## Section 8. Exposure controls and personal protection

### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
 XL1-Blue E. coli Strain Glycerol	<b>Safe Work Australia (Australia, 12/2019).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

### **Appropriate engineering controls**

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

### **Environmental exposure controls**

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

### Individual protection measures

#### **Hygiene measures**

: 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.

## Section 8. Exposure controls and personal protection

<b>Eye/face protection</b>	: 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.
<b>Skin protection</b>	
<b>Hand protection</b>	: 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.
<b>Body protection</b>	: 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.
<b>Other skin protection</b>	: 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.
<b>Respiratory protection</b>	: 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

<b>Physical state</b>	: pCMV-Tag 1 Mammalian Expression Vector	Liquid.
	pCMV-Tag 1 Control Vector	Liquid.
	XL1-Blue E. coli Strain	Liquid.
<b>Colour</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Odour</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Odour threshold</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>pH</b>	: pCMV-Tag 1 Mammalian Expression Vector	7.5
	pCMV-Tag 1 Control Vector	7.5
	XL1-Blue E. coli Strain	7.5
<b>Melting point</b>	: pCMV-Tag 1 Mammalian Expression Vector	0°C (32°F)
	pCMV-Tag 1 Control Vector	0°C (32°F)
	XL1-Blue E. coli Strain	Not available.
<b>Boiling point</b>	: pCMV-Tag 1 Mammalian Expression Vector	100°C (212°F)
	pCMV-Tag 1 Control Vector	100°C (212°F)
	XL1-Blue E. coli Strain	Not available.
<b>Flash point</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Evaporation rate</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.



## Section 9. Physical and chemical properties

<b>Flammability (solid, gas)</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not applicable.
	pCMV-Tag 1 Control Vector	Not applicable.
	XL1-Blue E. coli Strain	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Vapour pressure</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Vapour density</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Relative density</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Solubility</b>	: pCMV-Tag 1 Mammalian Expression Vector	Easily soluble in the following materials: cold water and hot water.
	pCMV-Tag 1 Control Vector	Easily soluble in the following materials: cold water and hot water.
	XL1-Blue E. coli Strain	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Auto-ignition temperature</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Decomposition temperature</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.
<b>Viscosity</b>	: pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific test data related to reactivity available for this product or its ingredients.
	pCMV-Tag 1 Control Vector	No specific test data related to reactivity available for this product or its ingredients.
	XL1-Blue E. coli Strain	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: pCMV-Tag 1 Mammalian Expression Vector	The product is stable.
	pCMV-Tag 1 Control Vector	The product is stable.
	XL1-Blue E. coli Strain	The product is stable.
<b>Possibility of hazardous reactions</b>	: pCMV-Tag 1 Mammalian Expression Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV-Tag 1 Control Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
	XL1-Blue E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

<b>Conditions to avoid</b>	: pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Incompatible materials</b>	: pCMV-Tag 1 Mammalian Expression Vector	May react or be incompatible with oxidising materials.
	pCMV-Tag 1 Control Vector	May react or be incompatible with oxidising materials.
	XL1-Blue E. coli Strain	May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: pCMV-Tag 1 Mammalian Expression Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV-Tag 1 Control Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XL1-Blue 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
XL1-Blue E. coli Strain Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
XL1-Blue E. coli Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### 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.

## Section 11. Toxicological information

<b>Information on likely routes of exposure</b>	pCMV-Tag 1 Mammalian Expression Vector	Not available.
	pCMV-Tag 1 Control Vector	Not available.
	XL1-Blue E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

<b>Eye contact</b>	pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Inhalation</b>	pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Skin contact</b>	pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Ingestion</b>	pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

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

<b>Eye contact</b>	pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Inhalation</b>	pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Skin contact</b>	pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.
<b>Ingestion</b>	pCMV-Tag 1 Mammalian Expression Vector	No specific data.
	pCMV-Tag 1 Control Vector	No specific data.
	XL1-Blue E. coli Strain	No specific data.

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

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

### Potential chronic health effects

<b>General</b>	pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Mutagenicity</b>	: pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: pCMV-Tag 1 Mammalian Expression Vector	No known significant effects or critical hazards.
	pCMV-Tag 1 Control Vector	No known significant effects or critical hazards.
	XL1-Blue E. coli Strain	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
XL1-Blue E. coli Strain Glycerol	12600	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
XL1-Blue E. coli Strain Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

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

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
XL1-Blue E. coli Strain Glycerol	-1.76	-	low

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may

## Section 13. Disposal considerations

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 IMO instruments** : Not available.

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

### 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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.



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

Not listed.

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

Not listed.

### Inventory list

<b>Australia</b>	:  Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> All components are listed or exempted. <b>Japan inventory (ISHL):</b> All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	:  All components are active or exempted.
<b>Viet Nam</b>	: Not determined.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 19/03/2021

**Date of previous issue** : 24/09/2018

**Version** : 6

**Key to abbreviations** :

- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- 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)
- N/A = Not available
- 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

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.