

## Section 1 – Identification

### Manufacturer Information

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### Product Information

L1LRB4 Lentivirus

(Catalog #: 82452)

**\*\*For Research Use Only. Not for diagnostic or therapeutic use. \*\***

**Intended use:** For research use only.

**Components:** Replication defective lentiviral vectors in multiple frozen vials.

## Section 2 – Hazards Identification

### Classification of the substance or mixture

Not a hazard substance or mixture

### Label Elements

Not a hazardous substance or mixture

### Hazards not otherwise classified (HNOC) or not covered by GHS

Biohazard, Biosafety Level 2. Each viral particle stock contains a pure recombinant, replication-defective lentivirus population. Lentiviruses are a subset of retroviruses, with the ability to integrate into host chromosomes, and to infect non-dividing cells. These viruses can cause severe immunologic and neurologic disease in their natural hosts. The more recent generation vectors have been designed to significantly diminish the possibility for recombination to occur resulting in a wild type- potentially infectious virus. Typical lentivirus vectors are packaged using pseudotyped enveloped proteins.

## Section 3 – Composition/Information on Ingredients

### Composition

The lentiviruses were produced from HEK293T cells and are provided in medium containing 90% DMEM + 10% FBS.

## Section 4 – First Aid Measures

### General Advice

*In case of skin contact:* Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

<i>In case of eye contact:</i>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<i>If swallowed:</i>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get immediate medical advice/attention.
<i>If inhaled:</i>	Remove to fresh air. Call a physician if symptoms occur.

## Section 5 – Fire Fighting Measures

### General Advice

<i>Extinguishing Media:</i>	For small fires, use dry chemical, water spray, carbon dioxide or alcohol-resistant foam.
<i>General Fire Hazards:</i>	The products will not significantly contribute to the intensity of a fire.

## Section 6 – Accidental Release Measures

### General Advice

<i>Personal Precautions:</i>	Avoid breathing vapors, mist or gas. For personal protection see section 8. Keep in suitable, closed containers for disposal. For disposal see section 13.
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## Section 7 – Handling and Storage

### Specific Use

**For Research Use Only.** Not for use in diagnostic procedures or by the general public. This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural application.

### Precautions for Safe Handling

For personal protection see section 8.  
Handle material under Biosafety Level 2 (BSL-2) containment.  
For precautions see section 2.

### Conditions for Safe Handling

Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature -70°C  
Storage class (TRGS 510): 12: Non Combustible Liquids

### Incompatibilities

None

## Section 8 – Exposure Controls and Personal Protection

### Exposure Limits

No data available.

### Exposure Controls

**Personal Protective Equipment (PPE):**

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental Exposure Controls:**

No special environmental precautions required

## Section 9 – Physical and Chemical Properties

Characteristic	
pH	Neutral
Solubility in Water	Soluble
Appearance	Yellow or light red translucent liquid when thawed
Odor	Odorless

## Section 10 – Stability and Reactivity

Characteristic	
Component Stability	Stable under recommended storage conditions
Hazard Reaction Potential	No data available
Conditions to Avoid	No data available

Materials to Avoid	No data available
Hazardous Decomposition Products	Not determined

## Section 11 – Toxicological Information

**Potential Health Effects:** General eye and/or skin irritation at point of exposure may be experienced.

**Acute Toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity or Reproductive toxicity**

Lentiviruses can integrate into the host cell genome and may pose some risk of insertional mutagenesis.

**Specific target organ toxicity - single exposure**

No data available.

**Specific target organ toxicity - repeated exposure**

No data available.

**Aspiration hazard**

Classification criteria are not met based on available data.

**Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

## Section 12 – Ecological Information

**Ecotoxicity, Persistence/Degradability, Bioaccumulation, Mobility in Soil, PBT and vPvB Assessment**

No information available.

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid disposal of this material down the drain.

## Section 13 – Disposal Considerations

**Disposal of Product and Contaminated Packaging**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Lentiviral vectors are GMOs; they are classified as Risk Group 2 by the world health Organization (WHO). Waste must be disposed of in accordance with the country, federal, state and local environmental control regulations for biohazardous material.

### Section 14 – Transportation Information

#### **U.S. Department of Transportation (DOT), Canadian Transportation, International Air Transportation (IATA)**

Number ONU/UN: 3373

Class: 6.2 if packaged with dry ice

Risk category: Biological substance, Category B

Expedition name: lentiviral vectors (GMO)

Labelling: Class 9 label, including UN1845, and net weight if packaged with dry ice

IATA instruction: 650

### Section 15 – Regulatory Information

**Classification: Biohazard Biosafety level BSL-2**

### Section 16 – Other Information

**Disclaimer:**

The information above is provided in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability, fitness for a particular purpose or of any other type, expressed or implied, with respect to products described or data or information provided, and we assume no liability resulting from the use of such products, data or information. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall BPS Bioscience, Inc. be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages of any kind, howsoever arising, even if BPS Bioscience, Inc. has been advised of the possibility of such damages.

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<b>REVISIONS:</b>	Updated to GHS Safety Data Sheet format		