

Material Safety Data Sheet (MSDS) FOR LENTIVIRAL PARTICLES

Cat. #	Product Name
CoV2-01	SARS-CoV-2 S Protein Pseudotyped Lentiviral Partical, GFP
CoV2-02	SARS-CoV-2 S Protein Pseudotyped Lentiviral Partical, Luc
CoV-01	SARS-CoV S Protein Pseudotyped Lentiviral Particles, GFP
CoV-02	SARS-CoV S Protein Pseudotyped Lentiviral Particles, Luc
VSV-G-01	VSV-G Protein Pseudotyped Lentiviral Particles, GFP
VSV-G-02	VSV-G Protein Pseudotyped Lentiviral Particles, Luc

This MSDS is applicable to pre-made and custom made lentiviral particles which are replication defective, non-infectious, and are not hazardous as defined by OSHA 1919.1200. However, lentiviral vector-derived particles are produced in human cells, and there is a possibility of recombination to generate infectious viruses. They should be handled as potentially infectious material.

Products Description: Lentiviral vectors carry HIV-derived genomic segments such as the long terminal repeats (LTRs) and Rev Responsive Elements (RRE). Our lentiviral particles do not carry any human or animal transgenes, and only reporter genes (e.g. GFP or luciferase) are present on the vectors. All viral structural genes are removed from our vectors which render the vectors replication defective and dependent upon a packaging vector (helper vector) to assemble replicative defective particles. These lentiviral vectors are pseudotyped with the Vesicular stomatitis Indiana virus glycoprotein (VSV-G) or with the pike protein (S protein) from SARS-CoV or SARS-CoV-2. Particles are provided in cell culture media. The material is normally shipped on dry ice and stored frozen at -80°C.

1) IDENTITY

NAME: Pre-assembled lentiviral particles

Provided: 1×10^7 - 10^9 viral genomes/mL in cell culture media.

2) HEALTH HAZARD

Lentiviral particles are replication-defective, and not possess danger to humans or animals. However, lentiviral particles can integrate into the host genome, and pose some risk of insertional mutagenesis.

3) PHYSICAL DATA

Frozen particle suspension

4) FIRE AND EXPLISION

None

5) REACTIVITY

Not chemically reactive but will enter permissive cells to integrate into cellular genome.

6) RECOMMENDED PRECAUTIONS

CONTAINMENT REQUIREMENTS: Appropriate containment facilities for all activities involving administration of the particles to cells. This includes **BSL-2 practices**.

PROTECTIVE CLOTHING: Laboratory coat, gloves, and safety glasses are recommended

7) HANDLING INFORMATION

SPILLS: Decontaminate the spills with 10% chlorine bleach, and allow at least 30 min to inactivate particles before clean up.

DISPOSAL: Decontaminate all wastes with 10% chlorine bleach before disposal. Using steam sterilization for liquid wastes.

STORAGE: Store in -80°C in sealed containers.

8) SECTION VIII

Special Precautions or Comments: All lentiviral particles-related research work should be handled by qualified personal using appropriate safety procedures and precautions. For information on BSL-2 handling, see Biosafety in Microbiological and Biomedical Laboratories (BMBL) 5th Edition.

The above information is accurate to our best knowledge. The user should exercise independent judgment for the hazards nature of lentiviral particles based on all sources of information available. 101 Bio shall not be held liable for any damage resulting from the handling or use of the above products.