

## AAV Reference Standards

## rAAV8 full capsids – Reference standard material

Product number: IP24016 Lot Number: AAV8-10251\_V1

Material provided: rAAV8-CMV-EGFP-WPRE

Format: 100 µL

Manufacturing date: 12/17/2024 Document version: 1

## MATERIAL SAFETY DATA SHEET –

rAAV8 full capsids (Recombinant Adeno-Associated Viral Vector serotype 8 wild-type) encoding non-toxic or non-tumorigenic Genes (Biosafety Level 1)

according to Regulation (EC) No. 2020/878 Version 2.0

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

Date of revision: October 2025

## 1. PRODUCT IDENTIFICATION

## Product Description:

AAV vectors consist of recombinant transgene sequences (e.g., marker or human genes) flanked by the AAV inverted terminal repeats. The removal of the majority of viral structural genes renders the vector replication-defective and dependent on an AAV helper virus. The AAV culture is provided as purified viral particles in DPBS+0.001% Poloxamer 188 at a concentration of above  $1 \times 10^{12}$  particles/mL. The viral stock consists of particles containing the vector genome (full capsids) and a number of empty viral capsids. The material is shipped on dry ice and stored from -70 °C to -80 °C.

For research use only. Not for use in diagnostic procedures.

## MANUFACTURER:

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## 2. HAZARDS IDENTIFICATION

## Potential Health Effects

Cultures of replication defective AAV vectors are non-infectious and are not hazardous materials as defined by OSHA 1919.1200. However, these materials are produced in cells where there is the possibility of recombination to form wild type virus. As such, they should be handled as potentially infectious material.

- Eye May cause eye irritation with susceptible persons.
- Skin May cause skin irritation with susceptible persons.
- Inhalation May be harmful if inhaled.
- Ingestion May be harmful if swallowed.

Chronic Effects/Carcinogenicity

Not available

OSHA Regulatory Status

Not available

## HMIS

Health	0
Flammability	0
Reactivity	0

This product is a potential biohazard and should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls and within the parameters of the purchaser's safety program.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS COMPOSITION

Each batch of viral vectors contains a pure recombinant, replication-defective AAV vector population. The viral vectors are classified as risk group 1 by the World Health Organization (WHO). The AAV vectors will enter mammalian cells and can remain in episomal form in non-dividing cells. In the presence of adenovirus (or other helper viruses) and wild-type AAV, the AAV vectors can integrate into host cell genomic DNA. They may cause human infections and may pose a hazard to laboratory personnel but are unlikely to spread in the community.

#### Hazardous/non-hazardous components

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 4. FIRST AID MEASURES

Skin contact	Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment.
Leak and Spill Procedure	In case of accidental spillage, contain the spilled material and immediately notify nearby personnel of the incident. Decontaminate the spillage by flooding and soaking the spilled material with a suitable disinfectant such as 1% sodium hypochlorite solution or 3.6% magnesium monoperoxyphthalate hexahydrate; allow sufficient time for the biocidal activity of the disinfectant (5 min or 15 min respectively). Clean the area and material using disposable paper towels or tissues. Towels and tissues contaminated with the AAV vectors should be treated as biohazardous materials and therefore be inactivated by autoclaving at 121 °C for at least 20 minutes.

## 7. HANDLING AND STORAGE

Follow Universal Precautions and established laboratory procedures when handling material. Handle as a potentially biohazardous material under Biosafety Level 1 containment.

Laboratory personnel using these devices must be trained, experienced and demonstrate proficiency in processing, maintaining, storing and disposing of biohazardous materials. It is the responsibility of the end user to determine the containment level, special practices appropriate for the procedure being performed and the level of training of laboratory personnel.

Storage                      Store from -70 °C to -80 °C (-94 °F to -112 °F) in a laboratory with a minimum biosafety level 1.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Good laboratory practices must be observed and followed at all times.

Engineering measures:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Respiratory protection              In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection                      Wash hand after use. Gloves are recommended.

Eye protection                        Safety glasses or goggles are recommended.

Skin and body protection            Lightweight protective clothing.

Hygiene measures                    Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Prevent product from entering drains.

## 9. PHYSICAL/CHEMICAL PROPERTIES

General information:

Form	Liquid
Appearance	Frozen liquid
Odor	No information available
Boiling point/range °C	No data available
Melting point/range °C	No data available
Flash point °C	No data available
Autoignition temperature °C	No data available
Oxidizing properties	No data available
Water solubility	No data available

## 10. STABILITY/REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	No data available
Hazardous decomposition products	No data available
Polymerization	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Not hazardous

Principle routes of exposure/potential health effects:

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

Specific effects:

Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None

Target organ effects

No known effects under normal use conditions.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No data available
Mobility	No data available
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Waste must be disposed of in accordance with federal, state, and local environmental control regulations for biohazardous material.
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## 14. TRANSPORT INFORMATION

Proper Shipping Name:	Biological Substance, Category B
Hazard Class:	6.2 (9 If packaged with dry ice)
UN Number:	UN 3373
Packing Instruction:	650

## 15. REGULATORY INFORMATION

Not listed.

## 16. OTHER INFORMATION

The above information was acquired by diligent search and/or investigation, and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

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#### Notice

We advise the following precautions in the laboratory. Whenever conducting experiments using AAV vectors, it is recommended to perform them using a class 1 biological safety cabinet. Always follow institutional policies and procedures regarding use and disposal of biohazardous material.

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