

Latest revision date: 08-13-2025

Revision: 0

SDS prepared by: Amplyus

SECTION 1 — IDENTIFICATION

Product name: qPCR Validation Positive Control 1

Product use: This product is for education and research use only

Supplier:

Amplyus LLC

1770 Massachusetts Avenue, Suite 167

Cambridge, MA 02140

Phone: 1-781-990-8727

Fax: 888-317-0512

Emergency Telephone Number: 1-781-990-8727 during US East Coast business hours

SECTION 2 — HAZARDS IDENTIFICATION

GHS classification: Not a dangerous substance or mixture according to the Global Harmonized System (GHS)"

Hazard statement(s): Product contains no substances which at their given concentration, are considered to be hazardous to health.

Precautionary statement(s): N/A

Hazards not otherwise classified: N/A

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number
Plasmid DNA and oligonucleotides (DNA)	n/a	9007-49-2
Tris-EDTA (pH 8.0)	1%	77-86-1, 6381-92-6, 7647-01-0
Water	~99%	7732-18-5

SECTION 4 — FIRST AID MEASURES

General information: No special measures required

Eye contact: Flush opened eye immediately with plenty of water. If irritation persists, get medical attention.

Skin contact: Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

Ingestion: Rinse mouth with water. Seek medical attention and appropriate follow-up.

SECTION 5 — FIRE-FIGHTING MEASURES

Conditions of flammability: Not flammable.

Suitable extinguishing media: Dry chemical, CO₂, water spray, or alcohol resistant foam.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous combustion products: N/A

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Prevent skin/eye contact. Wear personal protective equipment as needed.

Environmental precautions: No special measures required.

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling: No special measures required.

Conditions for safe storage: No special measures required. Store at -20 °C.

Incompatible products: N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls: Not required. General room ventilation is adequate for use of this product.

Personal protective measures: Wash hands thoroughly after handling. Do Not eat, drink or smoke when handling this product.

Personal protective equipment:

- **Skin protection:** protective gloves, appropriate protective clothing
- **Eye protection:** safety glasses

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Clear

Odor: No data available

Odor threshold: No data available

pH: ~7.0-8.0

Melting point/freezing point: No data available

Boiling point: No data available

Flash point: No data available

Evaporation rate: No data available

Ignition temperature: No data available

Autoignition temperature: No data

available

Lower explosion limit: No

data available

Upper explosion limit: No

data available

Vapor pressure: No data available

Vapor density: No data available

Relative density (water = 1): No data available

Water solubility: No data available

Partition coefficient (n-octanol/water): No data available

Viscosity: No data available

SECTION 10 — STABILITY AND REACTIVITY

Chemical stability: Stable at least 6 months under recommended storage conditions.

Incompatible materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: N/A

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Reproductive toxicity: No data available.

Teratogenicity: No data available.

Carcinogenicity: No components of this product are listed by IARC, NTP, and OSHA.

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT assessment: No data available.

vPvB assessment: No data available.

Other adverse effects: None known.

SECTION 13 — DISPOSAL CONSIDERATIONS

Product: Dispose of waste in accordance with applicable national, regional, or local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Do Not allow product to reach ground water, water course, or sewage system.

Contaminated packaging: Dispose of packaging in accordance with applicable national, regional, or local regulations.

SECTION 14 — TRANSPORT INFORMATION

This substance is considered to be Non-hazardous for transport.

SECTION 15 — REGULATORY INFORMATION

SARA 302/304 (40CFR355.30/40CFR355.40): This material does not contain any components with a section 302 EHS TPQ or a section 304 EHS RQ.

SARA 313: Substance not listed.

SARA 311/312: No SARA hazards.

California Proposition 65: Substance not listed.

Massachusetts right to know: Substance not listed.

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the abovementioned products