SAFETY MATERIAL DATA SHEET

Sample preservation buffer

SYL018

Document date: 17 November 2026

Sylphium
molecular ecology

Sample preservation solution (S1)

Identification of the product and of the company

Product name: Sample preservation solution

Also known as: Internal negative control (S1)

Product number: SYL018-S1

Supplier: Sylphium Molecular Ecology
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Composition and information on ingredients

Chemical name	CAS number	Percentage
Cetyltrimethylammonium bromide (CTAB)	57-09-0	1-5%
Sodium chloride (NaCl)	7647-14-5	5-10%
2-Mercaptoethanol (2-ME)	60-24-2	0.1-0.5%
Ethylenediaminetetraacetic acid (EDTA)	60-00-4	0.5-1%

Hazards identification

Substance characteristics	Potential health effects
• Physical state: liquid • Color: colorless to yellow • Odor: odorless to slightly sulfurous • Warning statements: none	• Inhalation: may cause irritation of the respiratory tract. • Skin contact: may cause skin irritation or dermatitis upon prolonged contact. • Eye contact: may cause eye irritation. • Ingestion: may cause gastrointestinal irritation or nausea.

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First aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention immediately.
Skin contact	Wash affected area thoroughly with soap and water. Seek medical attention if irritation persists.
Eye contact	Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Seek medical attention if irritation persists.
Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth with water. Seek medical attention immediately.

Fire-fighting measures

Fire and explosion Hazards	Not combustible. Will not burn under normal fire conditions.
Fire-fighting measures	Use water, foam or dry chemical to extinguish fire.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.

Accidental safety measures

Personal precautions	Wear protective equipment such as gloves, safety goggles, and a lab coat.
Environmental precautions	Do not allow material to contaminate water sources or soil.
Cleanup procedures	Absorb spills with absorbent material such as sand, vermiculite, or other inert material. Sweep up and place in a suitable container for disposal.

Handling and storage

Handling	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
Storage	Store in a cool, dry place. Keep container tightly closed.

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Exposure controls and personal protection

Engineering	Use in a well-ventilated area.
Personal protective Equipment	• Eye protection: Safety goggles. • Skin protection: gloves and lab coat. • Respiratory Protection: Use an appropriate NIOSH-approved respiratory protection if airborne exposure limits are exceeded or if respiratory irritation or distress is experienced.

Physical and chemical properties

Physical State	Liquid
Color	Colorless to yellow
Odor	Odorless to slightly sulfurous
pH	7.4-7.6
Boiling point	Not applicable
Melting point	Not applicable
Flash point	Not applicable
Auto-ignition	Not applicable
Solubility	Soluble in water

Stability and reactivity

Stability	Stable under normal conditions of use and storage.
Incompatible materials	Strong oxidizing agents.
Hazardous or decomposition products	May produce toxic fumes under fire conditions.

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Toxicological information

Acute toxicity	LD50/LC50: not applicable.
Skin corrosion or irritation	May cause skin irritation or dermatitis upon prolonged contact.
Serious eye damage or irritation	May cause eye irritation.

Ecological information

Ecotoxicity: not applicable.

Disposal considerations

Dispose of waste in accordance with local, state, and federal regulations.

Transport information

DOT (US): not regulated.

Regulatory information

OSHA hazards	Not regulated.
TSCA status	All components are listed on the TSCA inventory.

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Other information

The information provided in this Material Safety Data Sheet is believed to be accurate and reliable, but no representation, guarantee or warranties of any kind are made to its accuracy, reliability, or completeness. The information is offered solely for your consideration, investigation, and verification. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state, and local laws and regulations.

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