



# Sylphium

molecular ecology

## Material Safety Data Sheet

Sample preservation solution

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Version 1

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## SECTION 1: Identification of the product and of the company

Product name: **Sample preservation solution**

Also known as **Internal negative control (S1)**

Product number: SYL002-S1

Supplier: Sylphium Life Sciences  
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## SECTION 2: 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%

## SECTION 3: Hazards identification

Substance characteristics	Potential health effects
<ul style="list-style-type: none"> <li>Physical state: liquid</li> <li>Color: colorless to yellow</li> <li>Odor: odorless to slightly sulfurous</li> <li>Warning statements: none</li> </ul>	<ul style="list-style-type: none"> <li>Inhalation: may cause irritation of the respiratory tract.</li> <li>Skin contact: may cause skin irritation or dermatitis upon prolonged contact.</li> <li>Eye contact: may cause eye irritation.</li> <li>Ingestion: may cause gastrointestinal irritation or nausea.</li> </ul>

## SECTION 4: First aid measures

First Aid instructions for exposure	
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.

## SECTION 5: Fire-fighting measures

Fire hazards and safety information	
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.

## SECTION 6: Accidental safety measures

### Safety measures and precautions

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.

## SECTION 7: Handling and storage

### Storage and handling precautions

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

## SECTION 8: Exposure controls and personal protection

### Workplace safety and PPE guidelines

Engineering	Use in a well-ventilated area.
Personal protective Equipment	<ul style="list-style-type: none"> <li>• Eye protection: Safety goggles.</li> <li>• Skin protection: gloves and lab coat.</li> <li>• Respiratory Protection: Use an appropriate NIOSH-approved respiratory protection if airborne exposure limits are exceeded or if respiratory irritation or distress is experienced.</li> </ul>

## SECTION 9: Physical and chemical properties

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

## SECTION 10: Stability and reactivity

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.

## SECTION 11: Toxicological information

Irritation and toxicity details	
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.

## SECTION 12: Ecological information

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Ecotoxicity: not applicable.

## SECTION 13: Disposal considerations

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

## SECTION 14: Transport information

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DOT (US): not regulated.

## SECTION 15: Regulatory information

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

## SECTION 16: Other information

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This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information is believed to be accurate and reliable as of the date hereof. However, no representation, warranty or guarantee, express or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for their own particular use.



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