

Material Safety Data Sheet

Precast SDS Agarose Gel Cassettes for the SageELF™ Fractionation Instrument

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Section 1. Product and Company Information

Product Description:

1. SageELF™ precast SDS agarose gel cassettes with electrophoresis buffer.
2. Electrophoresis buffer (Tris-Taps with SDS)
3. DNA oligonucleotide labeled with fluorescein dye
4. Loading solution (water, Ficoll, SDS)

Product Numbers: Kit product numbers: ELP3010 and ELP5010
Unit Size:

1. Agarose gel cassette (in styrene): 10 ea.
2. SDS-Buffer: 1 ea. 200ml in a 350ml polypropylene bottle
3. DNA marker: 1 ea. 200µl in a 1ml tube
4. Loading solution 1 ea. 500µl tube in a 1ml tube

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Section 2. Composition, Information on Ingredients

CAS-No.	EC-No.	Chemical Name	Concentration
2312-07-05	219-031-8	Fluorescein Dye	0.25ng -1.0ng/ul
9007-49-2	N/A	Deoxyribonucleic acid (DNA)*	0.6-1.5ug total (6-15 ng/ul)
9012-36-6	232-731-8	Agarose	0.5-3% wt/vol
77-86-1	201-064-4	Tris (hydroxymethyl)aminomethane (Tris)	<5% wt %
29915-38-6	249-954-1	3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid (TAPS)	<5% wt %
6381-92-6	205-358-3	Ethylenediaminetetraacetic acid disodium dehydrate (EDTA)	<1% wt %
151-21-3	205-788-1	Sodium dodecyl sulfate – (SDS)	<1% wt % (8% wt/vol in loading solution)
26873-85-8	N/A	Ficoll	<30% (loading solution only)
7732-18-5	231-791-2	Water	>90% wt %

* DNA markers are manufactured with either synthetic oligonucleotides. Animal or plant DNA are not used for this product.

Section 3. Hazards Identification

Emergency Overview

Appearance: Gels, uncolored translucent. Marker and buffer uncolored, clear.

Target Organs: No data found.

OSHA Hazards

HMIS Classification

Health Hazard: N/A
Flammability: N/A
Physical hazards: N/A

NFPA Rating

Health Hazard: N/A
Fire: N/A
Reactivity Hazard: N/A

Potential Health Effects (Labeled DNA marker)

Inhalation: N/A
Skin: N/A
Eyes: N/A
Ingestion: N/A

Section 4. First Aid Measures

General Advice: N/A
Inhalation: N/A
Skin: N/A
Eyes: N/A
Ingestion: N/A

Section 5. Fire-Fighting Measures

Flammable Properties

Flash Point: No data available
Ignition Temperature: No data available

Section 6. Accidental Release Measures

N/A

Section 7. Handling and Storage**Handling**

Avoid contact with eyes, skin, and clothing. Avoid ingestion.

Storage

Store liquids at 4°C, cassettes at room temperature.

Section 8. Exposure Controls/Personal Protection

Contains no substance with occupational exposure limit values.
Facilities using this substance should be equipped with an eye-wash station.

Personal protective equipment**Respiratory protection:** Respiratory protection is not required.**Hand protection:** Handle with gloves.**Eye protection:** Use safety glasses with side-shield conforming to OSHA 29 CFR 1910.133 and European Standard EN-166**Clothing:** Wear appropriate clothing to prevent skin exposure.**Section 9. Physical and Chemical Properties**

Physical State: Liquid and Solid
Appearance: Clear
Odor: None
pH: No data available
Melting point: No data available
Boiling point: No data available
Flash point: No data available
Ignition temperature: No data available
Lower explosion limit: No data available
Upper explosion limit: No data available

Section 10. Stability and Reactivity**Storage Stability**

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents.

Hazardous decompositions products

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides.

Section 11. Toxicological Information

Toxicity:	No information found
Epidemiology:	No information found
Teratogenicity:	No information found
Reproductive Effects:	No information found
Mutagenicity:	No information found
Neurotoxicity:	No information found

Section 12. Ecological Information

No information available.

Section 13. Disposal Considerations**Product**

Observe all federal, stated, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Confer with laboratory safety officer. When used in cassettes, dispose of as agarose waste, ethidium homodimer concentration is negligible.

Contaminated packaging

Dispose of as unused product.

Section 14. Transport Information**DOT (US)**

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

Section 15. Regulatory Information

US Federal

OSHA

Irritant. Not considered highly hazardous.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that are reportable under SARA Title III, Section 313.

US State

Materials are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

TSCA

This product does not contain components listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

Clean Air Act

This material does not contain any hazardous air pollutants or Ozone depleters.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Canada

DSL Status

This product does not contain components that are on the Canadian DSL or NDSL lists.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Risk Phrases

R 68 Possible risk of irreversible effects.

Safety Phrases

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water

Section 16. Other Information

This information in this document is believed to be correct and current at the date of its authorship or revision. The information does not imply guarantee or warranty but should be used as a guide only. Users of this product should conduct their own investigations into safety precautions and local disposal requirements. Sage Science Inc., shall not be held liable for and damage from handling on contact with the product.