

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 1 of 9

Revision date: 04.23.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**Product identifier:** **Precast agarose gels cassettes (enclosed in styrene plastic):**  
~ 5ml agarose gel and ~10 ml Tris-TAPS buffer per cassette  
**DNA fragments (Fluorescein label) with Ficoll in water in tube:**  
<200ug DNA in 400- 600 ul of Tris-TAPS buffer  
**Tris-TAPS Electrophoresis buffer in bottle:** ~30 ml

**1.1 Product name:** **SageELF™ Agarose Gel Cassettes (10 per box)**

**Cat. No.:** **ELD2010, ELD7510, ELD4010**

**Other means of ID:** None

**Hazard components for labelling:** None

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified uses:** Used with Gel Electrophoresis of DNA.

**Uses advised against:** Life sciences research only.

**1.3 Details of the supplier of the safety data sheet:**

**Supplier:**  
Sage Science, Inc.  
500 Cumming Center  
Suite 2400  
Beverly, MA 019195  
Tel: 978-922-1832  
E-Mail : support@sagescience.com

**1.4 EMERGENCY TELEPHONE NUMBER:**

**(US) 1-978-922-1832**

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 2 of 9

Revision date: 04.23.2020

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture:

#### Classification

Upon assessment, this mixture is not classified as hazardous

### 2.2. Label elements

#### Label information

Hazard pictograms: Not applicable

Signal words: Not applicable

Hazard statements: Not applicable

### 2.3. Other hazards

Not relevant.

## SECTION 3: Composition/information on ingredients

CAS-No.	EC-No.	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Concentration
<b>Fluorescein</b>			
2312-07-05	219-031-8	Not Classified	0.25ng -1.0 ng/ul
<b>Deoxyribonucleic acid (DNA)*</b>			
9007-49-2		Not Classified	<1 µg
<b>Polysucrose (Ficoll)</b>			
26873-85-8		Not Classified	<30%
<b>Tris(hydroxymethyl)aminomethane (TRIS)</b>			
77-86-1	201-064-4	Not Classified	<5% wt %
<b>3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid (TAPS)</b>			
29915-38-6	249-954-1	Not Classified	<5% wt %
<b>Ethylenediaminetetraacetic acid (EDTA)</b>			
60-00-4	200-449-4	Not Classified	<1% wt%
<b>Agarose</b>			
9012-36-6	232-731-8	Not Classified	0.5-3% wt/vol
<b>Water</b>			
7732-18-5	231-791-2	Not Classified	>75%

\* DNA markers are manufactured with either synthetic oligonucleotides or phage (lambda) or bacterial (e.coli) DNA that has been digested with restriction enzymes. Animal or plant DNA are not used.

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 3 of 9

Revision date: 04.23.2020

#### SECTION 4: First Aid measures

##### 4.1 Description of first aid measures

###### General information

Standard laboratory protection (coat, glasses and gloves) should be observed.

###### Following inhalation

Aqueous solution, no special measures are necessary. If inhalation occurs seek medical advice.

###### Following skin contact

Normal washing of skin is sufficient. If symptoms occur, seek medical advice.

###### Following eye contact

Rinse eyes thoroughly with water. If symptoms occur, seek medical advice.

###### Following ingestion

Rinse mouth with water. If symptoms occur, seek medical advice.

###### Self-protection of the first aider:

Not applicable.

##### 4.2 Most important symptoms and effects, both acute and delayed

No further information is available

##### 4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

Not applicable.

##### 5.2 Special hazards arising from the substance or mixture

Not applicable.

##### 5.3 Advice for fire-fighters

Not applicable.

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 4 of 9

Revision date: 04.23.2020

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Not applicable

#### For emergency responders

Not applicable

### 6.2 Environmental precautions

Non hazardous. Users should follow procedures and regulations set by their facility with regards to discharge.

### 6.3 Methods and material for containment and cleaning up

Standard materials may be used (i.e paper towels, mop)

### 6.4 Reference to other sections

Not applicable.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

No special measures are required.

#### Advice on general occupational hygiene

Standard laboratory protection (coat, glasses and gloves) should be observed.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Store at room temperature. No special measures are required.

### 7.3 Specific end uses

Dilute 1:10 and use as electrophoresis buffer

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0

Page 5 of 9

Revision date: 04.23.2020

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

All ingredients lack occupational exposure limit values

### 8.2 Exposure controls

Standard laboratory protection (coat, glasses and gloves) should be observed.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Gel and liquid in sealed styrene or liquid    **Physical state:** Liquid/Gel

**Colour:** Clear or opaque gel

**Odour:** None                      **Odour threshold:** Not Applicable

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	Not Applicable					
Melting point/freezing point	Not Applicable					
Initial boiling point/boiling range	Not Applicable					
Flash point	Not Applicable					
Evaporation rate	Not Applicable					
Flammability (solid, gas)	Not Applicable					
Upper/lower flammability or explosive limits	Not Applicable					
Upper explosive limits	Not Applicable					
Lower explosive limits	Not Applicable					
Vapour pressure	Not Applicable					
Vapour density	Not Applicable					
Relative density	Not Applicable					
Solubility(ies)	Not Applicable					
Partition coefficient: n-octanol/water	Not Applicable					
Auto-ignition temperature	Not Applicable					
Decomposition temperature	Not Applicable					
Viscosity	Not Applicable					
Viscosity, dynamic	Not Applicable					
Viscosity, cinematic	Not Applicable					
Explosive properties	Not Applicable					
Oxidising properties	Not Applicable					

9.2 Other information: No data available

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 6 of 9

Revision date: 04.23.2020

#### SECTION 10: Stability and reactivity

- 10.1 Reactivity**  
Not indicated.
- 10.2 Chemical stability**  
The product is stable at normal storage and handling conditions
- 10.3 Possibility of hazardous reactions**  
Not indicated.
- 10.4 Conditions to avoid:**  
Not indicated.
- 10.5 Incompatible materials:**  
Not indicated.
- 10.6 Hazardous decomposition products:**  
Not indicated.

#### SECTION 11: Toxicological information

- 11.1 Acute toxicity**  
**EDTA:** LC50 Rat (Oral) = 2000 mg/kg  
**Tris and TAPS:** No data available  
**Fluorescein:** No data available  
**Agarose:** No data available  
**Ficoll:** No data available
- 11.2 Eye damage/irritation**  
To the best of our knowledge this product does not cause eye damage. May cause irritation with susceptible persons.
- 11.3 Practical experience / human evidence**  
In our experience there are no adverse affects from exposure to this product.
- 11.4 Sensitisation to the respiratory tract**  
To the best of our knowledge this product does not cause irritation to the respiratory tract.
- 11.5 Skin sensitisation**  
To the best of our knowledge this product does not cause skin irritation.
- 11.6 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
To the best of our knowledge this product does not cause any CMR effects.
- 11.7 Specific target organ toxicity (repeated exposure)**  
To the best of our knowledge this product does not cause organ toxicity
- 11.8 Aspiration hazard**  
To the best of our knowledge this product is not an aspiration hazard.
- 11.9 Symptoms related to the physical, chemical and toxicological characteristics:**  
Not Applicable.

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Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 7 of 9

Revision date: 04.23.2020

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Aquatic toxicity

**EDTA:** LC50 Fish = >500 mg/l

**Tris and TAPS:** No data available

**Fluorescein:** No data available

**Agarose:** No data available

**Ficoll:** No data available

#### Sediment toxicity

No data available

#### Terrestrial toxicity

No data available

### 12.2 Persistence and degradability

No data available on persistence and degradability, but there is no reason to suppose the product is persistent.

### 12.3 Bioaccumulative potential

No data available, but there is no reason to suppose the product bioaccumulates.

### 12.4 Mobility in soil

No data available, but there is no reason to suppose the product is ecologically harmful.

### 12.5 Other adverse effects:

The product and components have a very low global warming potential and no ozone depleting potential.

In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 8 of 9

Revision date: 04.23.2020

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Before intended use

Properties of waste which render it hazardous: none

Disposal operations: non hazardous, aqueous, use local regulations when disposing.

Recovery operations: not applicable

#### After intended use

Properties of waste which render it hazardous: none

Disposal operations: non hazardous, aqueous, use local regulations when disposing.

Recovery operations: not applicable

Polypropylene containers can be recycled

## SECTION 14: Transport Information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), AND (inland waterways), IMDG (sea), and ICAO (IATA) (air) data sheet.

### 14.1. UN number

Not classified as dangerous goods

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable



In accordance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS

Trade name: SageELF™ Agarose Gel Cassettes

Product Nos: ELD2010, ELD7510, ELD4010

Version: 1.0 Page 9 of 9

Revision date: 04.23.2020

#### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not Applicable

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment is not required.

#### SECTION 16: Other information

**16.1 Indication of changes**

There are no earlier versions of this document

**16.2 Abbreviations and acronyms**

Not applicable.

**16.3 Key literature references and sources for data**

Toxicity data for EDTA were obtained from the Toxicology Data Network provided by the US National Institute of Health (NIH). <https://toxnet.nlm.nih.gov/>

**16.4 Training advice**

Not applicable