

# Material Safety Data Sheet

## Precast Gel Cassettes for the BluePippin DNA Size Standard with Fluorescein dye

Version: 4  
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### Section 1. Product and Company Information

**Product Description:** 1. BluePippin™ Precast Agarose Gels with Buffer Solution and DNA marker.  
 2. DNA marker labeled with fluorescein dye.

**Product Numbers:** Gel Cassettes and reagents for product numbers: BDQ3010, BDF2010, BSF2010, BDF1510, BEF2010, BSQ2010, BLF7510, BUF7510, BMF7510, BHY7510, BHZ7510, PAC20KB, PAC40KB

**Unit Size:** Gels: 10 each, Buffer: 30 ml, DNA marker: 400- 600ul

**Company:** Sage Science, Inc.  
 Suite 2400, 500 Cummings Center  
 Beverly, MA 01915  
 USA

**Telephone:** 888.744.2244  
**Fax:** 617.812.0540  
**Emergency Phone:** 978.922.1832

### 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)*	1-20ug total (2-50ng/ul)
9012-36-6	232-731-8	Agarose	0.5-3% wt/vol
77-86-1	201-064-4	Tris (hydroxymethyl)aminomethane	<5% wt %
29915-38-6	249-954-1	3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid	<5% wt %
6381-92-6	205-358-3	Ethylenediaminetetraacetic acid disodium dihydrate	<1% wt %
7732-18-5	231-791-2	Water	>90% wt %

\* DNA markers are manufactured with either synthetic oligonucleotides or bacterial (e.coli) plasmid DNA that has been restriction digested. 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**

<b>Toxicity:</b>	No information found
<b>Epidemiology:</b>	No information found
<b>Teratogenicity:</b>	No information found
<b>Reproductive Effects:</b>	No information found
<b>Mutagenicity:</b>	No information found
<b>Neurotoxicity:</b>	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.