

Material Safety Data Sheet

BluePippin Replacement Reagent Kits:

For dye-free agarose gel cassettes using fluorescein labeled DNA

Version: 5
 Creation Date: 06/04/13
 Revision Date: 03/21/17

Section 1. Product and Company Information

Product Name: Reagent Replacement kit for Pippin Prep Gel Cassettes

Product Numbers: RBF1510 (Marker R2) RBQ2010 (Marker E1)
 RSF2010 (Marker X1) RBF7510 (Marker S1)
 RBF2010 (Marker V1) RUK7510 (Marker U1)
 RBQ3010 (Marker Q3) RMG7510 (Marker T1)
 RBE2010 (Marker M1) RHZ7510 (Marker Z1)

Product Details: 1 bottle: Electrophoresis buffer solution, 1 tube: DNA size marker in electrophoresis buffer solution, 1 tube: Sample loading solution (water with Ficoll)

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

DNA marker

| CAS-No. | EC-No. | Chemical Name | Concentration |
|------------|-----------|------------------------------|-------------------|
| 2312-07-05 | 219-031-8 | Fluorescein Dye | 0.25ng -1.0 ng/ul |
| 9007-49-2 | N/A | Deoxyribonucleic acid (DNA)* | <1 µg |

* 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.

Electrophoresis Buffer Solution

| CAS-No. | EC-No. | Chemical Name | Concentration |
|------------|-----------|--|---------------|
| 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 % |

Loading Solution

| CAS-No. | EC-No. | Chemical Name | Concentration |
|------------|-----------|---------------|---------------|
| 26873-85-8 | | Ficoll | <30% |
| 7732-18-5 | 231-791-2 | Water | >70% |

Section 3. Hazards Identification

Emergency Overview

Appearance: Uncolored liquid, 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
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

None

Hazardous decompositions products

None.

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.

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.