

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

Trade name: Reagent Replacement Kit, BluePippin™ Gel Cassettes

Product Nos: RBE2010, RBF7510, RUK7510 RHZ7510

Version: 1.0

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Revision date: 08.20.2018

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

Product identifier: **DNA fragments (Fluorescein label) with Ficoll in water in tube:**
<200ug DNA with 30% Ficoll in Tris-EDTA buffer (~500 ul vol.)
Ficoll (100% solution in 500 ul tube)
Tween@20 (0.1% IN 500 ul tube – not included with RBE2010)
Tris-TAPS Buffer (~30 ml in 60ml bottle)

1.1 Product name: **Reagent Replacement Kits: BluePippin™ Gel Cassettes**

Cat. No.: **RBQ3010, RBF2010, RBF1510**

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

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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
Fluorescein			
2312-07-05	219-031-8	Not Classified	0.25ng -1.0 ng/ul
Deoxyribonucleic acid (DNA)*			
9007-49-2		Not Classified	<1 µg
Polysucrose (Ficoll)			
26873-85-8		Not Classified	100% soln
Tris(hydroxymethyl)aminomethane (TRIS)			
77-86-1	201-064-4	Not Classified	<5% wt %
3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid (TAPS)			
29915-38-6	249-954-1	Not Classified	<5% wt %
Ethylenediaminetetraacetic acid (EDTA)			
60-00-4	200-449-4	Not Classified	<1% wt%
Tween®20 (polysorbate 20)			
9005-64-5	500-018-3	Not Classified	<0.2%
Water			
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.

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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.

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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

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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

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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
Ficoll: No data available
Tween20: LD50 Oral - rat - 40,554.0 mg/kg
- 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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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

Ficoll: No data available

Tween20: LC50 - other fish - 350 mg/l - 24 h

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.

SECTION 13: Disposal considerations

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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

SECTION 15: Regulatory information

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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 and Tween20 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