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Product No: KBB1001
Version: 1.0 / EN

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

1.1 Product identifier: Tris-TAPS Electrophoresis Buffer (mixture)

Product name: 10X KBB electrophoresis buffer, 1 liter

Cat. No.: KBB1001

Other means of ID: None

Hazard components for labelling: None

REACH Registration: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

EU Importers and Representatives are at listed at the end of this document.

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Classification in accordance with 1272/2008

Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

2.2. Label elements

Label information in accordance with 1272/2008

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 (wt/v)
Tris (hydroxymethyl)aminomethane (Tris)			
77-86-1	201-064-4	Not Classified	<15%
3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid (TAPS)			
29915-38-6	249-954-1	Not Classified	<15%
Ethylenediaminetetraacetic acid (EDTA)			
60-00-4	200-449-4	Not Classified	<1%
Water			
7732-18-5	231-791-2	Not Classified	>75%

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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

In terms of minimizing risks, no special attention is needed for this product besides the general obligation that follow EU directive 89/391 and national occupational legislation.

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: Clear Aqueous Liquid **Physical state:** Liquid **Colour:** Clear

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**Acute toxicity****EDTA:** LC50 Rat (Oral) = 2000 mg/kg**Tris and TAPS:** No data available**Eye damage/irritation**

To the best of our knowledge this product does not cause eye damage. May cause irritation with susceptible persons.

Practical experience / human evidence

In our experience there are no adverse affects from exposure to this product.

Sensitisation to the respiratory tract

To the best of our knowledge this product does not cause irritation to the respiratory tract.

Skin sensitisation

To the best of our knowledge this product does not cause skin irritation.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

To the best of our knowledge this product does not cause any CMR effects.

Specific target organ toxicity (repeated exposure)

To the best of our knowledge this product does not cause organ toxicity

Aspiration hazard

To the best of our knowledge this product is not an aspiration hazard.

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

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 Results of PBT and vPvB assessment

The product and components does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects:

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

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Directive 2008/98/EC (Waste Framework Directive)****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

Waste code: 16 10 02, Aqueous liquid other than those mentioned in 16 10 01

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

Waste code: 16 10 02, Aqueous liquid other than those mentioned in 16 10 01

Polypropylene container 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

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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 dataToxicity 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 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]**

This product is not classified.

16.5 Relevant R-, H- and EUH-phrases (number and full text)

Not applicable

16.6 Training advice

Not applicable

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EU Importers and Suppliers of Sage Science Products

Tel: +33 1 34 60 24 24
Email : info@ozyme.fr

Austria

Biozym Scientific GmbH
Steinbrinksweg 27
D – 31840 Hess. Oldendorf
Tel : +49 (0)5152 9020
Email : support@biozym.com

Belgium

Sopachem NV
Begoniastraat 17
B – 9810 EKE
Tel : +32 (0)9 245 25 50
Email : info.be@sopachem.com

Bulgaria, Croatia, Czech Republic

ACCELA s.r.o.
Sluzeb 4
108 00 Prague 10
Czech Republic
Tel: +420 255 700 886
Email : accel@accela.eu

Denmark

BioNordika Denmark A/S
Produktionsvej 26
2600 Glostrup
Tel: +45 39 56 20 00
Email : info@bionordika.dk

Estonia

BioNordika Baltic OU
Estonia pst 1
101 43 Tallinn
Tel : +372 6306 520
Email : info@bionordika.ee

Finland

BioNordika Finland OY
Sinikalliontie 10
02630 Espoo
Tel : +358 9 42 500 710
Email : info@bionordika.fi

France

Ozyme
Parc d'Activités du Pas du Lac
10, avenue Ampère
B.P. 268
78053 Saint Quentin Yvelines Cedex

Germany

Biozym Scientific GmbH
Steinbrinksweg 27
D – 31840 Hess. Oldendorf
Tel : +49 (0)5152 9020
Email : support@biozym.com

Hungary

ACCELA s.r.o.
Sluzeb 4
108 00 Prague 10
Czech Republic
Tel: +420 255 700 886
Email : accel@accela.eu

Ireland

Labtech International Ltd.
1 Acorn House
The Broyle
Ringmer, East Sussex
BN8 5NN
United Kingdom
Tel : +44 (0) 1273 814888
Email : sales@labtech.com

Italy

EuroClone S.p.A.
Via Figino 20/22
20016 Pero (Milan)
Tel : +39 02 381951
Email : info.bio@euroclone.it

Latvia, Lithuania

ACCELA s.r.o.
Sluzeb 4
108 00 Prague 10
Czech Republic
Tel: +420 255 700 886
Email : accel@accela.eu

Luxembourg

Sopachem NV
Begoniastraat 17
B – 9810 EKE
Tel : +32 (0)9 245 25 50
Email : info.be@sopachem.com

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Tel : +46 8 30 60 10

Email : info@bionordika.se

EU Importers and Suppliers of Sage Science Products**Netherlands**

Sopachem BV
44-RI Straat 33
4051 AP OCHTEN
The Netherlands
Tel : +31 (0) 344 655 150
Email : info.nl@sopachem.com

Poland

OpenExome sc
Bld. Centrum Nauk Biologiczno-Chemicznych UW
st. Zwirki i Wigury 101 room 5.22
01-828 Warszawa
Tel : +48 22 552 67 16
Email : community@openexome.pl

Portugal

Cultek S.L.U.
Av. Cardenal Herrera Oria, 63
28034 Madrid
Tel : +34 91 729 03 33
Fax : +34 91 358 17 61
Email : cultek@cultek.com

Romania, Slovakia, Slovenia

ACCELA s.r.o.
Sluzeb 4
108 00 Prague 10
Czech Republic
Tel: +420 255 700 886
Email : accel@accela.eu

Spain

Cultek S.L.U.
Av. Cardenal Herrera Oria, 63
28034 Madrid
Tel : +34 91 729 03 33
Fax : +34 91 358 17 61
Email : cultek@cultek.com

Sweden

Bionordika Sweden AB
Norrbackag 47 A
113 34 Stockholm
Sweden

United Kingdom

Labtech International Ltd.
1 Acorn House
The Broyle
Ringmer, East Sussex
BN8 5NN
United Kingdom
Tel : +44 (0) 1273 814888
Email : sales@labtech.com