

Safety Data Sheet

In accordance with Regulation (EC) No 1907/2006 (REACH), Annex II, as amended by
Commission Regulation (EU) 2020/878

Trade name: 10X KBB Buffer

Product No: KBB1001

Version: 2.0 / EN

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Revision date: 05.19.2026

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: Not for use outside of life sciences research.

1.3 Details of the supplier of the safety data sheet:

Supplier:

Sage Science, Inc.
500 Cumming Center
Suite 2400
Beverly, MA 01915
Tel: 978-922-1832
E-Mail : support@sagescience.com

1.4 EMERGENCY TELEPHONE NUMBER:

(US) 1-978-922-1832 (staffed Mon–Fri, 9:00–17:30 EST)

EU Importers and Representatives are 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

Precautionary statements: Not applicable

2.3. Other hazards

This mixture does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII. The mixture does not contain substances at a concentration $\geq 0.1\%$ (w/w) that are included in the candidate list established under Article 59(1) of REACH for endocrine-disrupting properties, or that are identified as having endocrine-disrupting properties under Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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 the 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	No Data Available					
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	No Data Available					
Solubility(ies)	Miscible with water					
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: LD50 Rat (Oral) = >2,000 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 effects 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 (carcinogenicity, 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 do not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties:

Based on available data, no component present at $\geq 0.1\%$ (w/w) meets the criteria for endocrine-disrupting properties with respect to the environment under the applicable criteria.

12.7 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), ADN (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

This product is subject to Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP). No component is listed on the REACH Authorisation List (Annex XIV) or subject to restriction under Annex XVII, and no component is an SVHC on the REACH Candidate List.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment is not required.

SECTION 16: Other information

16.1 Indication of changes

Version 1.0 / EN 06.27.2018

Version 2.0 / EN 05.19.2026 (revised: updated to Regulation (EU) 2020/878 format; header citation corrected; Sections 2.3, 9, 12, and 15 updated).

16.2 Abbreviations and acronyms

Not applicable.

16.3 Key literature references and sources for data

Toxicity data for EDTA were obtained from PubChem, provided by the US National Institute of Health (NIH). <https://pubchem.ncbi.nlm.nih.gov/compound/Edetic-acid#section=Toxicity>

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [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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