

Sodium Citrate Solution (1M) (Catalog# TBS5043)

Description

Citrate Concentrated Solution is 1 M sodium citrate in H₂O. As a conjugate base of a weak acid, sodium citrate can perform as a biological buffering agent because it resists changes in pH. Sodium citrate is used for **RNA isolation** because it minimizes base hydrolysis of the RNA strands. This makes it an important step in the mRNA purification, during genomic research or for studying transcription. Citrate-based buffers can also aid the **detection of antigens** in fixed tissue preparations, because they break the cross-links formed between the antigens and the fixation media. Citrate has anticoagulant activity; as a calcium chelator, it forms complexes that disrupt the tendency of blood to clot.

Storage: Supplied as 1 M Sodium Citrate Solution pH 5.0, 500 mL. Store at room temperature.

This product is for *IN VITRO* research use only and is not intended for use in humans or animals.

This product is not intended for use as a therapeutic or in diagnostic procedures.

Free of detectable DNase/RNase/human DNA.

Free of detectable endotoxins (pyrogens).

Sterility

The product was passed a 0.22 micron filter.

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order@tribioscience.com

Support Tel:650-917-9269
info@tribioscience.com

Web: www.tribioscience.com

RELATED PRODUCTS:

PBS-1x (catalog# TBS5003)
PBS-10x (catalog# TBS5004)
BSA Standard solution (catalog# TBS5002)
Protein Assay kit (catalog# TBS2005)
RIPA Buffer (catalog# TBS5017)
TBE-10x (catalog# TBS5007)
DNA Loading Buffer (catalog# TBS5018)
Protein Loading Buffer (catalog# TBS5014)
TAE-10x (catalog# TBS5006)

Material Safety Data Sheet (MSDS)

Identification:

Product name: Sodium Citrate Solution (1M)

Product Catalog: TBS5043 **Manufacturer**

Supplier:

4062 Fabian Way, Suite 1, Palo Alto,

CA 94303 USA

1-650-917-9269 TEL

1-650-618-5498 FAX

Composition/Information on Ingredients:

This product is For Research Use Only.

Ingredient Name	CAS#	Percent
SODIUM CITRATE	68-04-2	25.8%

Hazard Identification:

CAUTION: This product is not for use in humans. It is intended for research purposes only. To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been established.

Emergency Overview:

OSHA Hazards: Target Organ Effect, Harmful by Ingestion, Toxic by skin absorption, Irritant.

Target Organs: Lungs

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Eye Contact: Causes eye irritation. Risk of damage to eyes.

Skin Contact: May be harmful if absorbed through skin. Causes skin irritation.

Ingestion: Harmful if swallowed.

First Aid Measures for hazardous ingredient:

SODIUM CITRATE:

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: DO NOT INDUCE VOMITING. If person is conscious, wash out mouth with water. Get medical attention.

Skin contact: Wash skin with soap or mild detergent and water for at least 15 minutes. If irritation develops or persists, get medical attention.

Eye contact: Immediately flush eyes water for at least 15 minutes. Get medical attention.

Accidental Release Measures:

Wear appropriate personal protective equipment as indicated. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

Handling and Storage:

Store at room temperature in tightly closed container. Avoid inhalation of vapor or mist. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid prolonged or repeated exposure.

Exposure Controls/Personal

Ventilation System: a system of local (fume hood) and general exhaust is recommended.

Skin Protection: wear compatible chemical resistant gloves and protective clothing.

Eye protection: wear chemical safety goggles. Maintain emergency eyewash and shower in work area.

Physical and Chemical Properties

Appearance: colorless liquid **Odor:** data not available **pH:** data not available

Boiling Point: data not available

Melting or Freezing Point: data not available

Flash Point: data not available

Volatile Organic Compounds: data not available

Autoignition temp: data not available

Solubility (water): Soluble in water

Toxicological Information: Acute

toxicity: data not available **Chronic**

exposure: data not available

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Disposal Considerations:

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Other Information:

This product is for research use only and is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Tribioscience, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.