

Description

Ammonium sulfate is widely used for precipitation and fractionation of proteins as well as for the crystallization of proteins and protein-nucleic acid complexes.

Ammonium sulfate is also utilized in hydrophobic interaction chromatography and antibody purification. Ammonium sulfate acts by pulling water molecules away from the non-polar units of proteins. The decrease in available water molecules increases the surface tension and enhances hydrophobic interactions, thus allowing the protein to precipitate from a solution or bind to a hydrophobic column.

Storage: Supplied as 4M Ammonium Sulfate Solution, 500mL. Store at room temperature.

Note: The reagent is supplied as a ready-to-use, clear, colorless liquid. If crystals are observed in the bottle, this may be due to the temperature of the solution falling below 25 °C during shipping or storage. Warm the solution to 30–37 °C and gently mix to redissolve the crystals. Allow the solution to cool to room temperature prior to use.

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.

Orders Tel:650-917-9269
order@tribioscience.com

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

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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)

Identification:

Product name: Ammonium Sulfate Solution (4M)

Product Catalog: TBS5038

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
Ammonium Sulfate	7783-20-2	53%

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:

Ammonium Sulfate Solution:

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.