

Alkaline Copper Tartrate Solution B

Cat. No.: A1520406 | Pack size: 100 mL / 500 mL | Storage: Protected from light, room temperature

Overview

Alkaline Copper Tartrate Solution B is a BioReagent prepared in accordance with the Chinese Pharmacopoeia 2020 Edition. It is used as Solution B of the alkaline cupric tartrate test solution system.

The alkaline cupric tartrate test solution consists of Solution A and Solution B, which are mixed in equal volumes before use. This reagent is intended for research use only.

Key Features

- Prepared according to the Chinese Pharmacopoeia 2020 Edition
- BioReagent grade Solution B for alkaline copper tartrate / Fehling-type testing
- Room-temperature storage with protection from light
- Available in 100 mL and 500 mL package sizes

Product Information

Item	Description
Synonyms	Fehling's B solution
Specifications & Purity	BioReagent
Related names	Cupric tartrate; copper tartrate trihydrate; alkaline cupric tartrate test solution
Stability & Storage	Store at room temperature long term (12 months). Store in the dark.
Storage Conditions	Protected from light, room temperature
Shipping	Normal
Grade	BioReagent

Contents & Storage

Cat. No.	Product	Size	Storage
A1520406-100mL	Alkaline Copper Tartrate Solution B	100 mL	RT, protect from light
A1520406-500mL	Alkaline Copper Tartrate Solution B	500 mL	RT, protect from light

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves, eye protection	Safe handling
Pipettes / measuring cylinders	Clean, chemically compatible	Equal-volume mixing and transfer
Solution A	Matched alkaline copper tartrate Solution A	Preparation of complete test solution
Reaction tubes / glassware	Clean and dry	Sample processing

Preparation Before Use

1. Mix gently if any concentration gradient is suspected. Avoid vigorous shaking that may introduce bubbles.
2. Prepare the working alkaline cupric tartrate test solution by mixing Solution A and Solution B in equal volumes immediately before use, unless a protocol specifies otherwise.

Protocol

General Use

1. Use this reagent according to the specific requirements of the experiment or validated laboratory method.
2. Mix Solution A and Solution B in equal volumes before use to prepare the alkaline cupric tartrate test solution.
3. Process samples and controls according to the selected assay procedure.

Storage & Handling

Store as indicated on the product label: Protected from light, room temperature.

Shelf life: Store at room temperature long term (12 months). Store in the dark.

Safety & Precautions

1. For research use only. Do not use for clinical diagnosis, therapy, food or household purposes.
2. Wear a laboratory coat, disposable gloves and eye protection during operation.
3. Read the current SDS before use and handle waste according to local EHS requirements.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Conforms to the appearance described in this manual; no obvious contamination or abnormal precipitation unless specified.
Identity and labeling	Receipt inspection	Catalog number, lot number, size, storage condition and expiry date are legible.
Functional check	Run with representative sample or positive control	Expected staining, preservation, coagulation or assay performance is observed under the recommended procedure.

Troubleshooting

Issue	Possible Causes	Corrective Action
Unexpected assay response	Incorrect Solution A/Solution B ratio or expired reagent	Prepare fresh equal-volume mixture and verify reagent validity.
Precipitation or turbidity	Storage or contamination issue	Inspect reagent before use. Do not use if abnormal appearance persists after gentle mixing.

Recommended Applications

Reducing sugar detection · Alkaline cupric tartrate / Fehling-type tests · Pharmacopoeial test-solution preparation · Research-use biochemical assays

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.
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