Water-Soluble Siliconizing Fluid

Cat. No.: W1520202 | Pack size: 100 mL | Storage: Protected from light, room temperature

Overview

Water-Soluble Siliconizing Fluid is a water-based siliconizing agent designed for siliconization treatment of glass tubes such as blood collection tubes.

It shields hydroxyl groups on glass surfaces, reduces blood adhesion to tube walls and masks burrs on the inner wall to help avoid hemolysis caused by burrs puncturing blood cells.

Key Features

- Water-based siliconizing agent for glass tubes and blood collection tubes
- Yellow or brownish-yellow oily viscous transparent liquid with slight odor
- Main component is polysiloxane-polyalkoxy ether copolymer
- Prepare 1.5%-2% solution in purified water or 95% ethanol before spraying

Product Information

Item	Description
Synonyms	Water-soluble siliconizing agent | Aquasil
Specifications & Purity	BioReagent
Stability & Storage	Store at room temperature long term (36 months). Store in the dark. Desiccated.
Storage Conditions	Protected from light, room temperature
Shipping	Normal
Grade	BioReagent

Contents & Storage

Cat. No.	Component / Product	Size	Storage
W1520202-100mL	Water-Soluble Siliconizing Fluid	100 mL	RT, protect from light, desiccated

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves and eye protection	Safe handling and contamination control
Purified water or 95% ethanol	Clean solvent	Preparation of 1.5%-2% working solution
Glass tubes or reagent bottles	Clean and dry	Siliconization target
Spraying equipment	Validated for tube coating	Uniform application
Hot-air drying system	50-70 ℃	Drying to completion

Preparation Before Use

1. If temperature falls below 5 ℃ and the product solidifies, dissolve by heating in a water bath before use.
2. Prepare a 1.5%-2% solution in purified water or 95% ethanol.
3. Use clean tubes or bottles and ensure uniform coverage during spraying.

Protocol

Usage and Dosage

1. Dissolve in purified water or 95% ethanol to prepare a 1.5%-2% solution.
2. Evenly spray the working solution onto the inner walls of tubes or reagent bottles.
3. Dry with hot air at 50-70 ℃ until completely dry.

Expected Results

Function	Expected Result
Wall protection	Uniform water-based protective film forms on the inner wall after treatment.
Blood adhesion reduction	Significant reduction or elimination of blood adhesion to the tube wall.
Hemolysis prevention support	Hydroxyl groups are shielded and burrs masked to help maintain blood sample integrity.

Storage & Handling

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

Shelf life: Store at room temperature long term (36 months). Store in the dark. Desiccated.

Safety & Precautions

1. Store sealed at room temperature. If the temperature falls below 5 ℃ and the product solidifies, dissolve by heating in a water bath before use.
2. This product is non-toxic, non-corrosive and environmentally friendly; nevertheless, wear a lab coat and disposable gloves during operation.
3. This product is not classified as a dangerous good. Keep it sealed and protected from moisture.
4. For professional research and validated manufacturing-use workflows only.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Yellow or brownish-yellow oily viscous transparent liquid; no abnormal contamination.
Coating uniformity	Tube wall inspection after drying	Uniform protective film without obvious uncoated areas.

QC Item	Method	Acceptable Range
Functional check	Representative treated tube trial	Reduced blood adhesion and no obvious hemolysis under validated conditions.

Troubleshooting

Issue	Possible Causes	Corrective Action
Solidification at low temperature	Storage below 5 °C	Warm in a water bath until dissolved before use.
Uneven coating	Insufficient spraying or dirty glass	Clean tubes and spray evenly; verify solution concentration.
Incomplete drying	Insufficient hot-air time or temperature	Dry at 50-70 °C until completely dry.

Recommended Applications

blood collection tube siliconization · glass tube surface treatment · blood adhesion reduction · hemolysis prevention support · tube additive workflows

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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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 product for their specific application.
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