

Clarke Fixative Solution

Cat. No.: C1520388 | Pack size: 100 mL / 500 mL | Storage: Room temperature

Overview

Clarke Fixative Solution, also known as Clarke Fluid, is a BioReagent fixative for microscopy mainly composed of ethanol and acetic acid.

It provides favorable histological morphology for HE staining after fixation and can preserve nucleic acids. It is suitable for short-term fixation; tissues should be transferred to 95% ethanol after fixation.

Key Features

- Alcoholic-acetic fixative for microscopy
- Supports favorable morphology for HE staining
- Can preserve nucleic acids
- Short fixation time, generally 30-60 minutes

Product Information

Item	Description
Synonyms	Clarke Fixative Clarke Fluid
Specifications & Purity	BioReagent, for microscopy
Stability & Storage	Store at room temperature long term (12 months).
Storage Conditions	Room temperature
Shipping	Normal
Grade	BioReagent, for microscopy

Contents & Storage

Cat. No.	Component / Product	Size	Storage
C1520388-100mL	Clarke Fixative Solution	100 mL	RT

Cat. No.	Component / Product	Size	Storage
C1520388-500mL	Clarke Fixative Solution	500 mL	RT

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves and eye protection	Safe handling and contamination control
Tissue specimens	Appropriate thickness for fixation	Specimen fixation
95% ethanol	Histology grade	Post-fixation transfer
Sample containers	Chemically compatible	Fixation vessel
Forceps / tissue cassettes	Clean	Sample handling

Preparation Before Use

1. Select tissue samples of suitable thickness to facilitate fixative penetration.
2. Use sufficient fixative volume; generally, the fixative-to-tissue volume ratio should be greater than 10:1.
3. Prepare 95% ethanol for transfer after fixation.

Protocol

Procedure (For Reference Only)

1. Perform the procedure according to specific experimental requirements.
2. Generally, fixation takes only 30-60 minutes.
3. For larger tissue blocks, fixation time may be extended appropriately but should not exceed 24 hours.
4. After fixation, transfer the tissue to 95% ethanol.

Storage & Handling

Store as indicated on the product label: Room temperature.

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

Safety & Precautions

1. It tends to remove lipids and is not suitable for fixation in fat staining.
2. Fixation time varies with tissue thickness; proper tissue selection facilitates fixative penetration.
3. If fixative volume is inadequate, replace the fixative 1-3 times during fixation.
4. Fresh tissues should be fixed promptly after excision; if immediate fixation is not possible, store in physiological saline and submit without delay.
5. Wear a lab coat and disposable gloves during operation.
6. For research use only and strictly prohibited for other purposes.

Quality Control

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

Troubleshooting

Issue	Possible Causes	Corrective Action
Poor morphology	Insufficient fixative volume or sample too thick	Use a fixative-to-tissue volume ratio greater than 10:1 and prepare appropriate tissue thickness.

Issue	Possible Causes	Corrective Action
Incomplete fixation	Fixation time too short	Extend fixation within the recommended range and ensure full reagent penetration.
Downstream staining problem	Incompatible fixation or over-fixation	Match the fixative to the downstream staining method and follow the suggested fixation time.

Recommended Applications

short-term tissue fixation · HE staining preparation · nucleic-acid-preserving fixation · microscopy research

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.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.