

FPA Fixative Solution

Cat. No.: F1520383 | Pack size: 500 mL | Storage: Room temperature

Overview

FPA Fixative Solution (FPA Fluid) is a BioReagent fixative for microscopy mainly composed of formalin, ethanol and acetic acid.

It is used for fixing general plant specimens. Fixation for 24 hours yields better results than FAA fixative and allows long-term preservation of specimens.

Key Features

- Formalin-ethanol-acetic acid fixative for plant specimens
- Suitable for general plant specimen fixation
- Fixation generally requires 24 hours
- Specimens can be stored long-term after fixation

Product Information

Item	Description
Synonyms	FPA Fixative FPA 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
F1520383-500mL	FPA 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
Plant specimens	Suitable thickness	Fixation target
Fixation containers	Chemically compatible	Specimen immersion
Physiological saline	If immediate fixation is not possible	Temporary sample handling
Ventilated workspace	Fume hood recommended	Safe handling

Preparation Before Use

1. Prepare plant tissue specimens of suitable thickness; routine biopsy tissues are typically 2-4 mm and generally not more than 6 mm.
2. Use sufficient fixative volume, generally greater than 10:1 fixative-to-tissue volume ratio.
3. Handle in a well-ventilated environment and avoid inhalation.

Protocol

Procedure (For Reference Only)

1. Fixation generally requires 24 hours.
2. Specimens can be stored long-term after fixation.

Storage & Handling

Store as indicated on the product label: Room temperature.

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

Safety & Precautions

1. FPA fixative is harmful to the human body; handle with care in a well-ventilated environment and avoid inhalation.
2. Fixation time varies with tissue thickness. Proper tissue preparation facilitates fixative penetration.

3. The fixative volume should be sufficient; if inadequate, replace the fixative 1-3 times during fixation.
4. Temperature significantly affects fixation. Increasing temperature accelerates fixation, but the temperature should not be excessively high.
5. Fresh tissues should be fixed promptly after collection; if immediate fixation is not possible, store in physiological saline and submit without delay.
6. Wear a lab coat and disposable gloves during operation.
7. 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.
Incomplete fixation	Fixation time too short	Extend fixation within the recommended range and ensure full reagent penetration.

Issue	Possible Causes	Corrective Action
Downstream staining problem	Incompatible fixation or over-fixation	Match the fixative to the downstream staining method and follow the suggested fixation time.

Recommended Applications

plant tissue fixation · long-term specimen preservation · microscopy sample preparation · plant histology 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.



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Product Instructions
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