

Formaldehyde Calcium Fixative (10%)

Cat. No.: F1520402 | Pack size: 500 mL | Storage: Room temperature

Overview

The purpose of fixation is to preserve the original morphological structure of cells and tissues. Fixatives can prevent autolysis of tissues and cells by endogenous lysosomal enzymes and inhibit the growth of bacteria and molds. Fixatives alter the internal structure of proteins through coagulation, formation of adducts, and other mechanisms, thereby inactivating enzymes. Fixatives also induce physical changes in the nucleus and extracellular components of cells. Fixatives are mainly classified into aldehyde fixatives, mercuric fixatives, alcoholic fixatives, oxidizing fixatives, picrate fixatives, etc. Among the commonly used ones are formalin in the aldehyde group and ethanol in the alcoholic group.

Formaldehyde Calcium Fixative (10%) is mainly composed of formaldehyde, calcium salts, and deionized water. This fixative is suitable for the fixation of most tissues.

Procedure (For Reference Only)

1. Operate according to the specific requirements of the experiment. Generally, the fixation time is controlled at 1-4 hours per mm of specimen thickness; the fixation time should be appropriately prolonged for large specimens.
2. Fixed tissues can be stored long-term in 10% Formal-Calcium Fixative or 70% ethanol.

Precautions

1. 10% Formal-Calcium Fixative is somewhat irritating and corrosive. Please operate in a well-ventilated environment and avoid inhalation.
2. The pH of the fixative should preferably be close to neutral, within the range of 6-8.
3. Temperature has a significant effect on fixation: increasing temperature accelerates fixation, but the temperature should not be excessively high.
4. Fresh tissues should be fixed promptly after excision. If fixation cannot be performed immediately, the tissues should be preserved in physiological saline and submitted for testing without delay.
5. For your safety and health, please wear a laboratory coat and disposable gloves during operation.
6. This product is for research use only and strictly prohibited for other purposes.

Specifications

Attribute	Value
Synonyms	Formalin-Calcium Chloride Fixative Adipose Tissue Fixative
Specifications & Purity	BioReagent, for microscopy, 10%
Stability And Storage	Store at room temperature long term (12 months).
Storage Conditions	Room temperature
Shipped In	Normal
Grade	BioReagent, for microscopy

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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.

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, transportation, disposal, and emergency procedures.

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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