

Polyformaldehyde-Glutaraldehyde Mixed Fixative (4%/0.5%)

Cat #: A-CSH470

Size: 500mL

Storage: 2~8°C, avoid light (12 months)

Product Description

The purpose of fixation is to preserve the original morphology and structure of cells and tissues. Fixatives can prevent endogenous lysosomal enzymes from autolysis of tissues and cells and inhibit the growth of bacteria and fungi.

Fixatives alter the internal structure of proteins through coagulation, formation of additive compounds, etc., thereby inactivating enzymes. Fixatives can be classified into aldehyde fixatives, mercury fixatives, alcohol fixatives, oxidizing agent fixatives, and picric acid salt fixatives. The most commonly used are formaldehyde in aldehyde fixatives and ethanol in alcohol fixatives.

Polyformaldehyde-glutaraldehyde mixed fixative (4%/0.5%) is composed of 4% polyformaldehyde, phosphate, and 0.5% glutaraldehyde, with a pH of 7.4. This fixative is suitable for the fixation of special requirements for cells or tissues, such as electron microscopy samples.

Usage

Follow the specific requirements of the experiment.

Notes

1. Polyformaldehyde solution is irritating and corrosive. Please handle with care in a well-ventilated environment.
2. Once opened, use it as soon as possible. The fixation effect may decrease if the liquid is stored for too long.
3. Avoid excessively prolonged fixation time, as it may cause excessive cross-linking of biomolecules within cells.
4. The fixation time varies depending on the thickness of the tissue sample.
5. The volume of the fixative should be sufficient. The ratio of fixative to tissue block volume should generally be greater than 10:1.

6. Temperature has a significant impact on fixation. Increasing the temperature can accelerate the fixation process, but the temperature should not be too high.

7. After removing fresh tissue, it should be fixed promptly. If it cannot be fixed immediately, it should be stored in physiological saline and sent for examination in a timely manner.

Disclaimer

For your safety and health, please wear a lab coat and disposable gloves while handling.