

Polyformaldehyde-Glutaraldehyde Mixed Fixative (2%/2.5%)

Cat #: A-CSH471

Size: 500mL

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

Product Description

The purpose of fixation is to preserve the original morphological structure of cells and tissues. Fixatives can prevent endogenous lysosomal enzymes from autolysis, inhibit the growth of bacteria and fungi. Fixatives induce changes in the internal structure of proteins through coagulation, formation of additive compounds, etc., thereby inactivating enzymes. Fixatives are classified into aldehyde fixatives, mercury fixatives, alcohol fixatives, oxidizing agent fixatives, and picrate fixatives. The commonly used ones are formaldehyde in the aldehyde category and ethanol in the alcohol category. Polyformaldehyde-Paraformaldehyde Mixed Fixative (2%/2.5%) is composed of 4% polyformaldehyde, phosphate, and 0.5% paraformaldehyde, with a pH of 7.4. This fixative is suitable for the fixation of cells or tissues with special requirements, such as electron microscopy samples.

Usage

Follow the specific experimental requirements.

Notes

1. Polyformaldehyde solution has a certain level of irritancy and corrosiveness, so handle with care in a well-ventilated environment.
2. Once opened, use the solution as soon as possible. The fixation effectiveness may decrease if the solution is stored for too long.
3. Avoid excessively prolonging the fixation time, as it may cause excessive cross-linking of biomolecules within the cells.
4. The fixation time varies depending on the thickness of the tissue sample.

5. Sufficient volume of fixative should be used, and the ratio of fixative to tissue block volume should 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. Fresh tissues should be fixed promptly. If immediate fixation is not possible, they should be stored in physiological saline and sent for examination as soon as possible.

Disclaimer

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