

Cytology Fixative Spray

Item #4240-CYT-017

INTENDED USE

Innovatek's Cytology Fixative Spray is an alcohol based spray type fixative for the preservation and transport of slide-based cytology specimens. The product is designed for preserving smears of cellular material such as Pap smears for subsequent staining with Papanicolaou stain.

SUMMARY AND PRINCIPLE

The preparation of suitably fixed and preserved cytology specimens and cell smears has been paramount to the assessment and diagnosis of human disease. Most notably, this has been exemplified by the development of the Pap Smear in 1941 by Dr. George Papanicolaou. Nevertheless, common spray-type cytology fixatives offer limited fixation and diagnostic potential beyond that of morphological assessment of disease and routine staining. The advent of newer technologies and molecular detection systems requires a cytology fixative that can provide qualitative and quantitative antigenic and molecular diagnostic information directly on the slide. Research data has been developed supporting the use of Cytology Fixative Spray preserved smears for the detection of HPV, HIV, genomic mutations and other viral or bacterial pathogens. Innovatek Cytology Fixative Spray contains fixation and cell-stabilizing components in an alcohol base providing cellular, antigenic and genomic preservation for routine staining, immunohistochemistry, FISH, in situ PCR and RT-PCR.

REAGENTS SUPPLIED

Innovatek Cytology Fixative Spray containing polyethylene glycol in isopropanol. This spray is ready to use. Do not dilute or add other materials.

STORAGE AND STABILITY

Store at room temperature. This product is flammable. Do not store near any heat sources or under direct sunlight.

INSTRUCTIONS FOR USE

Innovatek Cytology Fixative Spray is **flammable**. Do not use near open flame or spray on hot objects.

For Pap smear:

1. Label the patient identification on the microscope glass slide.
2. Cover one half of the microscope glass slide with a piece of paper if two samples (one from cervical scraper and one from cytology brush) are to be placed on one microscope glass slide.
3. Immediately after preparing the smear hold the Cytology Fixative Spray container 6 to 8 inches away from the slide and evenly spray the entire cell smear by depressing the plunger 2-3 times.

4. Allow the smear to dry thoroughly before staining, performing cytochemical or other molecular biological detection methods or mailing the slide to the lab.

For other procedures:

For immuno-detection or in situ molecular detection systems, please refer to the manufacturer's instructions.

INDICATIONS OF PRODUCT DETERIORATION

If the liquid is cloudy or having visible precipitate, do not use the Cytology Fixative Spray.

PRECAUTIONS

1. This product is flammable, irritant and poisonous. Refer to MSDS.
2. Do not ingest. May cause blindness.
3. Staining times with hematoxylin-based stains may need to be reduced.
4. Before staining, remove Innovatek Cytology Fixative Spray by dipping the slide in a few changes of alcohol.
5. When performing cytochemical or in situ molecular biology applications, care should be taken to monitor (or eliminate) any epitope retrieval or permeabilization steps for the intracellular penetration of detection reagents, probes or primers.

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Revised: May 2003.