

## Acid Fast Decolorizer

### Intended use

3% concentrated HCl in 95% Ethanol for decolorization of Acid Fast smears.

### Summary

In clinical microbiology, for the screening of Acid-Fast Bacilli such as *Mycobacterium tuberculosis* and *Mycobacterium leprae* strong acid is used for decolorization of the smears.

### Principle

Carbol Fuchsin forms acid, insoluble complex with the Mycolic acid present on the Acid-Fast Bacilli and renders red / pinkish red color to *Mycobacterium tuberculosis* or *Mycobacterium leprae*. *Mycobacterium* species being acid fast in nature, resists decolorization by strong acid. Other elements present in the smear are decolorized with the decolorizer (3% concentrated HCl in 95% Ethanol) and hence take up the counter stain (methylene blue) and are stained blue.

### Reagent / Contents

Microexpress® Acid-Fast Decolorizer is a pre-diluted, ready to use 3% concentrated HCl in 95% Ethanol for decolorization of Acid-Fast smears for the screening of *Mycobacterium tuberculosis* and *Mycobacterium leprae*.

### Accessory

Plastic dropper - 1 no.

### Appearance

Colorless liquid solvent.

### Storage and Stability

1. Store the Acid-Fast Decolorizer at room temperature, away from bright light. Seal the container tightly after use.
2. Avoid contact with skin and mucosa. On disposal flush with large quantities of water.

### Uses

*Mycobacteria* (AFB/Acid-Fast Bacteria) are difficult to stain due to high lipid and wax content in their cell walls. Acid-Fast Decolorizer is a ready to use reagent which is used for decolorization of Acid-Fast smear for the identification of *Mycobacterium tuberculosis*.

### Warning & Precautions

For *in vitro* diagnostic use only. Read the label before opening the container. Safety guidelines may be referred in individual safety data sheets. Standard precautions as per established guidelines should be followed while handling clinical specimens.

### Limitations

Smears that are too thick may flake during staining and may be difficult to decolorize.

### Warranty

This product is designed to perform as described on the label and pack insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### Reference

1. Diagnostic Microbiology, Bailey & Scott, 9th Ed., Mosby, 1994, Ellen Jo Baron, Lance R. Peterson.
2. Practical Medical Microbiology, Mackie & McCartney, Vol. 1: Microbial Infections, 13<sup>th</sup> Ed., Churchill Livingstone 1978.
3. Data on file: Microexpress®, A Division of Tulip Diagnostics (P) Ltd.

**Product Presentation****Cat No.**

203010450500

**Product Description**

Ready Prepared Stain solvent.

**Pack Size**

500 mL

**Disclaimer**

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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