

## ACID FAST DECOLOURIZER

**PRODUCT CODE** 801790

### Intended Use

Acid fast decolorizer is used as decolorizing solution for Acid Fast staining.

### Principle And Interpretation

Mycobacteria (AFB/Acid Fast Bacteria) are difficult to stain due to high lipid and wax content in their cell walls. Acid fast is a differential staining technique useful for identification of the tubercle bacillus, other Mycobacteria, and Nocardia, which depends on the chemical composition of the bacterial cell wall. It is also called as Ziehl-Neelsen staining technique. Because of the difficulty in staining these organisms with ordinary dyes, basic dyes in the presence of controlled amounts of acid are used. The primary stain used in acid-fast staining, carbol fuchsin, is lipid-soluble and contains phenol, which helps the stain penetrate the cell wall. Generally, heat must be applied during the staining procedure, or wetting agents must be used, to aid dye penetration. Organisms exhibiting the property of acid fastness, once stained, are not easily decolourized by alcohol. Non-acid fast organisms are decolourized by acid fast decolourizer and take up the counter stain

PARAMETER	LIMIT
Description	A clear colourless liquid.
Solubility	Soluble with water.
Suitability test	Passes test.

### Directions

1. Prepare a smear on a clear, dry glass slide.
2. Allow it to air dry and fix with gentle heat.
3. Flood the smear with Carbol Fuchsin stain . Heat to steaming for 5 minutes with a low flame; do not boil the stain and do not permit drying of the smear.
4. Allow it to stand for 5 minutes without further heating.
5. Wash in the running tap water.
6. Decolourizer with Acid Fast Decolourizer for 2 minutes or until no more stain comes off in the washings.(If washing is not thorough, may get false positive results).
7. Wash with the tap water.
8. Counterstain for 30 seconds with Methylene Blue.
9. Wash with tap water, dry in air, then examine under an oil immersion objective.

### Results

Acid fast organisms: Bright red

All other organisms and background material: Blue

**Note(s) : 1] Assay (if applicable) method mentioned.**

#### WARNING

**HAZARD STATEMENTS** : May cause respiratory irritation. Flammable liquid and vapour. Harmful if swallowed.

Causes mild skin irritation. Causes eye irritation.

#### PRECAUTIONARY STATEMENTS :

**Prevention** : Ground/bond container and receiving equipment. Use only nonsparking tools. Take precautionary Measures against static discharge. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flame - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves and eye/face protection.

**Response** : If eye irritation persists, get medical advice/attention. If skin irritation occurs, seek medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: refer to Label or MSDS. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. In case of fire, use foam for extinction.

**Disposal** : Allow to evaporate in safe open area (applicable for small quantities). The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. If the volumes are larger than 500ml and no incinerator and site of evaporation is not available then transfer the waste chemical to waste solvent drum for collection by specialist disposal company.

IMDG Code : 3/II

UN No. : 1170

IATA : 3



# Product Specification

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Hazard Pictogram(s) :



GHS07



GHS02

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