

Intended use

Carbol Fuchsin is used as a dye to detect acid fast bacteria.

Principle

Mycobacteria (AFB/Acid Fast Bacteria) are difficult to stain due to high lipid and wax content in their cell walls. This differential staining technique is useful for identification of the tubercle bacillus, other Mycobacteria and Nocardia, which depends on the chemical composition of the bacterial cell wall. Because of the difficulty in staining these organisms with ordinary dyes, basic dyes in the presence of controlled amounts of acid are used. 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 decolorized by alcohol.

Reagent / Contents

Basic Fuchsin Ethyl	0.30 gm
alcohol, 95%	10.0 ml
Phenol	5.0 gm

Appearance: Dark pinkish red solution.

Type of specimen

Clinical specimen: Sputum

Procedure

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. Decolourize with Acid Fast Decolorizer 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 and Interpretation

Acid fast organisms: Dark pink to red bacilli

All other organisms and background material: Blue

Storage and Stability

Store at 15°C-25°C away from bright light. Use before expiry date on label.

Warning & Precautions

In Vitro diagnostic use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.



Manufacturer
CAT NO.
Number Lot number
Date of manufacture
Use by (Expiration date)



For In-Vitro Diagnostic use only
Attention: See instruction for use
Stored at 15-25 °C
Authorized Representative in the European Company



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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. Data on file: UltraCare Diagnostics .

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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