



Product Specification

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CARBOL FUCHSIN STAINING SOLUTION STRONG (ZIEHL NEELSEN STAINING SOLN.)

PRODUCT CODE 814900

Intended Use

Carbol Fuchsin (Zn,Strong) is used as staining 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. 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.

PARAMETER

LIMIT

Description	Dark pink coloured viscous liquid.
Solubility	Miscible with alcohol and water.
Wt. per ml (at 20°C)	About 1.000 g

MAXIMUM LIMIT OF IMPURITY

Residue on evaporation	About 1.0% w/v.
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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. Decolorize 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

Acid fast organisms: Bright red

All other organisms and background material: Blue

Note(s) : Assay (if applicable) method mentioned.

DANGER

HAZARD STATEMENTS : Flammable liquid and vapour. Causes mild irritation. Cause serious eye irritation. Harmful contact with skin. Harmful if swallowed. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled . May cause allergic skin reaction . May be corrosive to metals. Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS :

Prevention : Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves/clothing. Do not breathe dust or mist. In case of inadequate ventilation wear respiratory protection. Contaminated clothing should not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat/sparks/open flame - No smoking. Keep container tightly closed. Wear protective gloves and eye/face protection.

Response : In case of fire, use alcohol-type foam for extinction. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. Absorb spillage to prevent material damage. If skin irritation or rash occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment: refer to Label or MSDS.

Disposal : Add a little at a time (2 to 5g) to a large volume of water. After the reaction or solution is complete, allow it to run to normal waste, diluting with large amount of water. Any sand used to cover spillage should be thoroughly washed with water before disposal as normal waste.

Hazard pictogram(s) :



GHS02



GHS05



GHS07



GHS08

Replace Date 16-Dec-2023