



Technical Data

ZN Acid Fast Stains-Kit (contains S033,S005 and S022)

K005L

ZN Acid Fast Stains-Kit is used for staining of acid fast bacteria.

Composition**

Carbol Fuchsin (ZN,Strong)(S005)	-
Basic Fuchsin	0.300 gm
Ethyl alcohol,95%	10.000 ml
Phenol	5.000 ml
Distilled Water	95.000 ml
Acid Fast Decolourizer(S033)	-
Hydrochloric acid,concentrated	3.000 ml
Ethyl alcohol,95%	97.000ml
Methylene Blue (Loeffler's)(S022)	-
Methylene Blue	0.300 gm
Ethyl alcohol,95%	30.000 ml
Distilled Water	100.00 ml

**Formula adjusted, standardized to suit performance parameters

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 (S005). 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 running tap water.
- 6) Decolourize with Acid Fast Decolourizer (S033) for 2 minutes or until no more stain comes off in the washings. (If washing is not thorough, you may get false positive results).
- 7) Wash with tap water.
- 8) Counterstain for 30 seconds with Methylene Blue (S022).
- 9) Wash with tap water, dry in air, then examine under oil immersion objective.

Principle And Interpretation

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 decolourized by alcohol. Non-acid fast organisms are decolourized by acid fast decolourizer and take up the counter stain.

Quality Control

Microscopic examination

Acid fast staining is carried and staining characteristics of organisms is observed under microscope by using oil immersion lens

Results

- Bright red - Acid fast organism
- Blue - Other organisms and cellular material

Storage and Shelf Life

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

Revision : 1 / 2015



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