

# ACID FAST BACTERIA (A.F.B.) STAIN KIT PROCEDURE

Item# KT 001

(Revised Feb. 4, 2008)

<b>KIT COMPONENTS INCLUDED:</b>
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500 ml Acid Alcohol Solution (1%)  
125 ml Carbol Fuchsin Solution

125 ml Light Green Solution

STORAGE NOTE: **STORE CARBOL FUCHSIN SOLUTION AT ROOM TEMPERATURE.**

PRODUCT NOTE: CARBOL FUCHSIN SOLUTION SHOULD BE FILTERED IF A "GOLD SHEEN" FROM OXIDATION DEVELOPS ON THE SURFACE.

PRINCIPLE: This kit demonstrates Acid Fast Bacteria and Tubercle Bacilli.

SPECIMEN: Any well fixed paraffin embedded tissue cut at 6 microns.

PROCEDURE:

1. Deparaffinize slide with Xylene or Xylene Substitute and hydrate through alcohols.
2. Rinse slide in Tap water.
3. Place slide in **Carbol Fuchsin Solution** for 10 to 15 minutes.
4. Rinse slide thoroughly in Tap water.
5. Differentiate section for a few seconds in **Acid Alcohol Solution (1%)** until background is pale pink.
6. Rinse slide in running Tap water and check using microscope for correct differentiation.
7. Rinse slide in running Tap water for 1 minute.
8. Stain section to desired intensity using **Light Green Solution**.
9. Dehydrate slide through 3 changes of Absolute Alcohol.
10. Clear slide through 3 changes of Xylene or Xylene Substitute.
11. Coverslip using a permanent mounting media.

RESULTS:

Tubercle Bacilli, other Acid Fast Bacteria: **BRIGHT RED**

Other Tissue: **LIGHT GREEN**

LEPRA BACILLUS DEMONSTRATION, NOCARDIA DEMONSTRATION:

To demonstrate Lepra Bacillus, use **DBS Leprosy Procedure, Fite's Stain Kit**.

To demonstrate Nocardia, use **DBS Nocardia Procedure, Fite's Stain Kit**.

**REFERENCE:** A.F.I.P. Manual, pg. 176.; Mallory Pathological Technique, pg. 275.

 **For In-Vitro Diagnostic Use.**

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product.

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