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# Acid Fast Bacteria (AFB) Stain Kit

**Description:** The Acid Fast Bacteria (AFB) Stain Kit is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red  
Background: Light Green

**Uses/Limitations:** For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use past expiration date.  
Use caution when handling these reagents.

**Control Tissue:** Any well fixed section cut 3-5 microns or any air dried smear on clean slide.

**Availability/Contents:**

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage Conditions</u>
Carbol Fuchsin Solution	125 ml	Room Temperature
Acid Alcohol Solution (0.5%)	500 ml	Room Temperature
Light Green Solution	125 ml	Room Temperature

**Precautions:** Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.  
Use in chemical fume hood whenever possible.

**Note:** Carbol Fuchsin Solution should be filtered when a thick sheen develops on top of solution. To avoid possible contamination, gloves should be worn when performing this procedure. Do not use tap water prior to application of Carbol Fuchsin Solution as it is reported that Acid Fast Bacteria can be found in some systems. Therefore use of distilled water is recommended whenever possible.

**Procedure (Standard):**

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Carbol Fuchsin Solution for 15 minutes.
3. Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
4. Decolorize in Acid Alcohol Solution (0.5%) until sections are a pale pink color.
5. Counterstain in Light Green Solution for 1-2 minutes.
6. Rinse in several changes of distilled water.
7. Dehydrate quickly through graded alcohols ending with 2 changes in absolute alcohol.
8. Clear, and mount in synthetic resin.


Storage: 18° C  25° C

**Store Components at Room Temperature.**

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**References:**

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2<sup>nd</sup> Edition. Battelle Press, Columbus, OH.
2. Carson, F.L., 1996, Histotechnology; A Self-Instructional Text, 2<sup>nd</sup> Edition. ASCP Press, Chicago, IL.

Storage: 18° C  25° C

**Store Components at Room  
Temperature.**