

Version 2 updated 26 June 2018

ab150660 Acid Fast Bacteria (AFB) Stain Kit (Microorganism Stain)

For the histological visualization of Acid Fast Bacteria and Tubercle Bacilli.

This product is for research use only and is not intended for diagnostic use.

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1. Overview

The Acid-Fast Bacteria (AFB) Stain Kit (Microorganism Stain) is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 20 minute procedure. The lipoid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Staining Interpretation:

Acid Fast Organisms	Red
Background	Light Green

Control Tissue:

Any well-fixed section (3-5 microns) or any air-dried smear on clean slide.

2. Materials Supplied and Storage

Store kit at room temperature immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt, if components have not been reconstituted.

Keep away from open flame and refer to the Safety Data Sheet.

Item	Quantity	Storage temperature (before prep)
Carbol Fuchsin Solution	125 mL	Room temperature
Acid Alcohol Solution (0.5%)	500 mL	Room temperature
Light Green Solution	125 mL	Room temperature

3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Graded alcohol solutions
- Absolute alcohol
- Distilled water

4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide:

www.abcam.com/assaykitguidelines

For typical data produced using the assay, please see the assay kit datasheet on our website.

5. Reagent Preparation

5.1 Carbol Fuchsin Solution

Ready to use as supplied.

ΔNote: Carbol Fuchsin Solution should be filtered when a thick sheen develops on the top of the solution.

5.2 Acid Alcohol Solution (0.5%)

Ready to use as supplied.

5.3 Light Green Solution

Ready to use as supplied.

6. Assay Procedure

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.
- 6.1 Deparaffinize sections if necessary and hydrate in distilled water.
- 6.2 Incubate slide in Carbol Fuchsin Solution for 15 minutes.
- ΔNote:** 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.
- 6.3 Rinse for 2 minutes in running tap water followed by 2 changes of distilled water.
- 6.4 Decolorize in Acid Alcohol Solution (0.5%) until sections are a pale pink color.
- 6.5 Counterstain in Light Green Solution for 1-2 minutes
- 6.6 Rinse in several changes of distilled water.
- 6.7 Dehydrate quickly through graded alcohols ending with 2 changes in absolute alcohol.
- 6.8 Clear and mount in synthetic resin.

7. FAQs / Troubleshooting

General troubleshooting points are found at www.abcam.com/assaykitguidelines

8. Notes

Technical Support

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