

Version 2 Last updated 25 June 2018

ab150668 Fite's Stain (Microorganism Stain)

For the histological visualization of *Mycobacterium Lepra bacillus* and *Nocardia*.

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

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1. Overview

The Fite's Stain (For Leprosy and Nocardia) is intended for use in the histological visualization of Mycobacterium *Lepra bacillus* and Nocardia. This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

Staining Interpretation:

<i>Lepra bacillus</i>	Red
Nocardia	Red
Background	Blue

Control Tissue:

Any well fixed paraffin-embedded tissue.

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 datasheet.

Item	Quantity	Storage temperature (before prep)
Xylene-Peanut Oil Solution	125 ml	RT
Carbol Fuchsin Solution	125 ml	RT
Acid Alcohol Solution (1%)	500 ml	RT
Methylene Blue Solution	125 ml	RT

3. Materials Required, Not Supplied

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

- Xylene or xylene substitute

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. *Lepra bacillus* Procedure

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.

- 5.1 Deparaffinize in 2 changes of Xylene-Peanut Oil Solution for 12 minutes each.
- 5.2 Air dry slide for 15 minutes.
Δ Note: Do not remove oil film. Remaining film prevents de-staining of *Lepra bacillus* during differentiation.
- 5.3 Rinse slide in several changes of distilled water.
- 5.4 Incubate slide in Carbol Fuchsin Solution for 15 minutes.
- 5.5 Rinse slide in several changes of distilled water.
- 5.6 Differentiate section in Acid Alcohol Solution (1%) until background is pink.
- 5.7 Rinse slide in distilled water and check by microscope for correct differentiation.
- 5.8 Rinse slide in running tap water for 1 minute followed by 1 rinse in distilled water.
- 5.9 Dip slide 2-3 times in Methylene Blue Solution.
- 5.10 Dip slide quickly in distilled water and check by microscope for correct staining.
- 5.11 Air dry slide at room temperature.
- 5.12 Dip slide several times in xylene or xylene substitute.
- 5.13 Mount in synthetic resin.

6. Nocardia Procedure

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.

Prepare Diluted Acid Alcohol Solution:

Item	Volume
Acid Alcohol Solution (1%)	25 ml
Distilled water	25 ml

- 6.1 Deparaffinize sections in 2 changes of Xylene-Peanut Oil Solution for 12 minutes each.
- 6.2 Air dry slide for 15 minutes.
Δ Note: Do not remove oil film. Remaining film prevents de-staining of *Lepra bacillus* during differentiation.
- 6.3 Rinse slide in several changes of distilled water.
- 6.4 Incubate slide in Carbol Fuchsin Solution for 15 minutes.
- 6.5 Rinse slide in several changes of distilled water.
- 6.6 Dip slide 2-3 times in Diluted Acid Alcohol Solution.
- 6.7 Rinse slide in distilled water and check by microscope for correct differentiation. Avoid de-colorizing the Nocardia organism.
- 6.8 Rinse in running tap water for 1 minute followed by 1 rinse in distilled water.
- 6.9 Rinse slide 2-3 times in Methylene Blue Solution.
- 6.10 Dip slide quickly in distilled water and check by microscope for correct staining.
- 6.11 Air dry slide at room temperature.
- 6.12 Dip slide several times in xylene or xylene substitute.
- 6.13 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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