

A-100 FITE'S METHOD FOR ACID FAST ORGANISMS

FIXATION: **10% Buffered Neutral Formalin** (F-113).

TECHNIQUE: Cut paraffin sections at 6 microns.

STAINING PROCEDURE: Use control slide.

1. Deparaffinize through two changes of **Xylene-Peanut Oil** (A-100-3), for 12 minutes each.
2. Drain, wipe off excess oil and blot to capacity. The residual oil helps prevent shrinkage and injury of section.
3. **Ziehl-Neelsen Carbol Fuchsin** (A-100-1), for 30 minutes.
4. Wash in tap water 3 minutes.
5. Differentiate slides individually with **Sulfuric Acid, 1%** (A-100-4), until sections are faint pink (1 minute).
6. Wash in running water 3 minutes.
7. Counterstain lightly with **Methylene Blue Working** (A-100-2A).

To prepare working solution, mix:

Methylene Blue Stock (A-100-2).	10 ml
Distilled water.	90 ml

8. Rinse off excess stain, blot and allow to air dry thoroughly.
9. Dip slides in **Xylene** (C-120).
10. Mount with **Permunt** (M-18).

RESULTS:

Acid Fast Bacilli, Nocardia Filaments, Lepra Bacilli	red
Background	pale blue

REFERENCES:

Fite, G.L., Cambre, P.J., and Turner, M.H.: Arch Path. 43:624 (1974).
AFIP Manual of Histological Staining Methods, 3rd ed., Ed. L. Luna: New York: McGraw Hill Publications, c. 1968, p. 217.

