

N-854, SIEGEL'S POLYCHROMATIC

METHOD

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

Sections: Paraffin @ 6 microns

Staining:

1. Deparaffinize and hydrate to distilled water.
2. **Toluidine Blue 0 Solution** (N-854-1) for 1 minute. Wash in tap water.
3. Check for metachromasia under the microscope.
4. **Naphthol Yellow S Solution** (N-854-2), one dip. Wash in tap water.
5. Repeat steps 3 & 4 until brown colors are visible.
6. Dehydrate in **Tertiary Butyl Alcohol** (D-50) and clear in **Xylene** (C-120), three changes, two minutes each.
7. Mount with **Permount** (M-18).

Staining Results:

A spectrum of colors aid in the differentiation of various cells and tissue constituents. The optimum staining time for each dye solution should be determined empirically. Overstaining with Toluidine Blue 0 causes an excessive accumulation of dye in the blue or brown areas, while overstaining with Naphthol Yellow S can completely remove the basic stain from some structure.

References:

AFIP Manual of Histological Staining Methods, 3rd Ed., Ed. L.Luna:
New York: McGraw- Hill Publications, c. 1968, p. 131.
Sieges, I., Stain Techn., 42:29-30, 1967.

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