

K-684, WOELCKE'S METHOD FOR MYELIN SHEATH

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

Sections: Paraffin @ 15 microns

Staining:

1. Deparaffinize and hydrate to distilled water.
2. Mordant in **Ferric Ammonium Sulfate 2.5%** (K-684-1) overnight. Rinse in two changes of distilled water.
3. Working hematoxylin solution for 2 hours. To prepare working solution mix the following ingredients in order listed just before use:
 - 45.0 ml distilled water
 - 10.0 ml **Hematoxylin Stock** (K-684-2) - filtered
 - 7.0 ml **Lithium Carbonate, sat.** (K-684-3) - filtered
 - 45.0 ml distilled water
4. Rinse in two changes of distilled water.
5. Differentiate in 80% Alcohol until background is clear and myelin stands out sharply.
6. Dehydrate with 95% Alcohol, absolute alcohol, and clear in **Xylene** (C-120) two changes each. Mount.

Staining Results:

Black	Glial cells, nucleoli of neurons
Blue	Myelin sheath
Clear	Background

Reference:

AFIP Manual of Histological Staining Methods, 3rd ed., Ed. L. Luna: New York: McGraw Hill Publications, c. 1968, p. 206.