

## **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, 3<sup>rd</sup> ed., Ed. L. Luna: New York: McGraw Hill Publications, c. 1968, p. 206.