

K-672, ALDEHYDE-THIONIN-PAS METHOD FOR CENTRAL NERVOUS SYSTEM

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

Sections: Paraffin @ 6 microns.

STAINING:

1. Deparaffinize and hydrate to distilled water.
2. Place for 2 minutes in equal parts of Sulfuric Acid 0.5% (K-672-6) and Potassium Permanganate 0.5% (K-672-7).
- 3.
4. Stain for approximately 50 minutes in Aldehyde Thionin Solution (K-672-2) using an air-tight container. Rinse in distilled water.
5. Place in Periodic Acid 0.5% (K-672-3) for 5 minutes. Rinse in distilled water.
6. Stain for 15 minutes in Schiff's Reagent (K-672-4). Wash in running water for 15 minutes.
7. Stain for 3 minutes in Orange G Solution 1% (K-672-5).
8. Phosphotungstic Acid 5% (K-672-9) for 1 minute.
9. Rinse briefly in Acetic Acid 1% (K-672-8).
10. Dehydrate in 95% Alcohol, absolute alcohol, and clear in xylene, two changes each.
11. Mount with Permount (M-18).

Stain Results:

Nissl substance	Blue-black
PAS positive materials	Red
Background	Various shades, depending on amount of differentiation

References:

Luna, L.G., (ed.), Manual of Histologic Staining Methods of the AFIP, 3rd edition, McGraw-Hill, NY, p 210, c 1968.