

## **K-658      PHOSPHOTUNGSTIC ACID HEMATOXYLIN PROCEDURE**

**Fixation:** Formalin, 10% neutral, buffered

**Sections:** Parrafin @ 6 microns

### **PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Oxidize sections with **Potassium Dichromate, 2.5% working solution (K-658-7)** overnight.
3. Wash gently in running tap water for 15 minutes.
4. Place in **Lugol's Iodine, (K-658-4)** for 15 min.
5. Place in 95% alcohol for 1 hour to remove iodine. The brown color of the iodine is removed by several changes of 95% alcohol.
6. Rinse rapidly in 3 changes of distilled water.
7. Oxidize in **Potassium Permanganate, 0.25%, (K-658-5)** for 5 minutes.
8. Rinse rapidly in 3 changes of distilled water.
9. Place in **Oxalic Acid, 5%, (K-658-3)** for 5 minutes.
10. Rinse rapidly in 3 changes of distilled water.
11. Stain in the **Phosphotungstic Acid Hematoxylin (PTAH), (K-658-2)** solution overnight.
12. Rinse in 95% alcohol to remove excess stain.
13. Dehydrate quickly with 3 changes of absolute alcohol.
14. Clear with Xylene, 3 changes, for 3 minutes each.
15. Mount with resinous medium.

### **Stain Results:**

Blue	Nuclei, myelin sheaths, and glial cell processes
Pink	Cytoplasm

### **References:**

Luna, L. G. (ed) Manual of Histologic Staining Techniques of the AFIP, 3<sup>rd</sup> ed., McGraw-Hill Publications, N.Y. p.199, c. 1968.

Luna, L. G. (ed) Manual of Histologic Staining Techniques of the AFIP, 4<sup>th</sup> ed., McGraw-Hill Publications, N.Y. p.98, c. 1992.

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