Technical Data Sheet

Wolbach's Giemsa Method

Catalog #: 26773-Series

Fixation:

Zenker's or other well fixed tissue fixatives.

Sections:

Paraffin @ 6 microns.

Staining Procedures:

1. Deparaffinize and hydrate to distilled water.

- 2. Remove "Zenker Crystals" by placing in <u>Lugol's Iodine (#26773-03)</u> or <u>Gram's Iodine (#26773-3A)</u> for 15 minutes. Rinse in water, place in <u>Sodium Thiosulfate</u>, 5% (#26773-04) for 3 minutes and wash in running water for 15 minutes.
- 3. Rinse in distilled water and stain in Working Giemsa Solution* (#26773-1A) overnight.
 - a. Working Giemsa Solution may be made from the stock solution by mixing: <u>Giemsa Stock (#26773-01)</u> - 1.25 ml

Methanol - 1.50 ml

Distilled water - 50.0 ml

NOTE: Giemsa stain colors more effectively in tissue at an acid pH. If this has not occurred in the preparation or decalcifications steps, wash in an acid alcohol, and begin stain.

- 4. Differentiate in Rosin Alcohol Working (#26773-2A) until the sections are purplish-pink color. Check under microscope.
- 5. Dehydrate in two changes of absolute alcohol and clear in two changes of Xylene (#23400)
- 6. Mount with Permount (#17986-01).

Stain Results:

Nuclei, BacteriaBlueRickettsiaPurpleCollagen, other Tissue ElementsPink to Rose

References:

Wolbach, S.B., Todd, J.L., and Paltrey, F.W., The Etiology of Pathology Typhus. Harvard University, University Press, Cambridge, MA, p. 13-14, c. 1922..

Luna, L.G., (ed). Manual of Histologic Staining Methods of the AFIP 3rd edition. McGraw-Hill, NY, p. 119, c. 1968.