

J-610, DE GALANTHA'S METHOD FOR URATE CRYSTALS

Fixation: Absolute Alcohol. If specimen contains bone, decalcify in **Nitric Acid Alcohol** (F-96). Wash in Absolute Alcohol for 24 hours.

Sections: Paraffin @ 8-10 microns.

Staining:

1. **Xylene** (C-120), Absolute Alcohol, two changes each.
2. Expose sections in **Silver Nitrate Solution** (J-610-1) to strong sunlight for 3 hours (until urates are bright rose).
3. Pour freshly prepared developing solution over slides until the urates turn black and the connective tissues are yellow. Prepare developing solution by mixing just before use:

10.0 ml **Gelatin, 3%** (J-610-2)
3.0 ml **Silver Nitrate, 20%** (J-610-1)
2.0 ml **Hydroquinone, 2%** (J-610-3)

4. Wash quickly in hot water (58°C).
5. Dehydrate in Absolute Alcohol, and clear in **Xylene** (C-120), two changes each. Mount.

Stain Results:

Urates	Black
Background	Yellow

References:

DeGalantha, E.: Amer. J. Clin. Path., 5:165, 1935.

Luna, L.G., (ed.), Manual of Histologic Staining Methods of the AFIP, 3rd ed., McGraw-Hill, N.Y., P. 187, c. 1968