

L-777, TAFT'S METHOD FOR NUCLEIC ACIDS

Fixation: Carnoy's (F-60) or Absolute Alcohol

Sections: Paraffin @ 4 microns

Procedure:

1. Deparaffinize and hydrate to distilled water.
2. Immerse in the **Methyl Green-Pyronin Stain** (L-777-1) for 10 minutes. The stain may be filtered before use.
3. Rinse in distilled water, twice briefly.
4. Carefully blot dry with several thicknesses of smooth filter paper.
5. Place in the **Differentiating Solution** (L-777-2) for 1-2 minutes, then hydrate again in a fresh change of the solution. If the slides are left up to 4-5 minutes in the second t-butyl alcohol solution, additional differentiation should not take place.
6. Clear in xylene through 2 changes, 10 minutes each. Mount in **Permount** (M-18).

Staining Results:

DNA, Deoxyribonucleic Acid	Blue green
RNA, Ribonucleic Acid	Bright red

References:

Taft, E.B., Stain Tech., 26:205-212, 1951

MICROWAVE PROCEDURE

Procedure:

1. Deparaffinize and hydrate to distilled water.
2. Place slides in 40ml filtered **Methyl Green Pyronin**(L-777-1) Solution in a glass coplin jar; cover with a loose plastic cap. Heat in microwave oven for 15 seconds.
3. Rinse in distilled water and blot with filter paper.
4. Differentiate the damp section in **Differentiating Solution** (L-777-2), 2 changes, 2-3 dips.
5. Clear in xylene 2 changes and mount.

Staining Results:

Chromatin DNA	Blue Green
RMA	Red Rose
Other elements	Pale Pink