

L-774, LILLIE'S METHOD FOR NUCLEIC ACID

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

Sections: Paraffin @ 6 microns

Staining:

1. Deparaffinize and hydrate to distilled water.
2. Place slides in preheated **1 N Hydrochloric Acid** (L-774-2) at 60°C for 10-15 minutes.
3. Stain for 10 minutes in **Schiff's Reagent** (L-774-1).
4. Place in **Sodium Bisulfite, 0.05M**(L-774-3) for 3 changes, 2 minutes each. Wash in running water for 5 minutes.
5. Stain for a few seconds in **Fast Green Solution, 0.01%** (L-774-4).
6. Dehydrate in 95% alcohol, absolute alcohol, and clear in xylene, two changes each.
7. Mount with **Permount** (M-18)

Cells:

Nuclear chromatin	Deep red-purple
Cytoplasm	Light green
The chromatin of plasmodia, sarcosporidia toxoplasmata and histoplasmata	Pale red

NOTE: If the fast Green is too intense, it may be removed promptly in water, it does not wash out in alcohol.

References:

Lillie, R.D., Histopathologic Technic and Practical Histochemistry, 3rd ed, McGraw-Hill, NY, pp149-150, 1965
Luna, L.G., (ed.), Manual of Histologic Staining Methods of the AFIP, 3rd ed. McGraw-Hill, NY, p 131, c1968.