

0-920, AB/PAS/CG STAIN

FIXATION: After bisecting the gland and then bisecting each half, fix for 6-10 hours in **Formalin Calcium Acetate Solution** (F-117) followed by 4-6 hours in **70% Alcohol** (F-13) before beginning dehydration and embedding.

SECTIONS: Paraffin at 3-5 microns.

STAINING:

1. Deparaffinize and hydrate to distilled water.
2. Stain in **Alcian Blue Solution** (0-920-1) for 30 minutes. Rinse briefly in water to remove excess Alcian Blue.
3. Place for 30 minutes in **Sodium Carbonate 0.3%** (0-920-2). Wash in running water for 5 minutes.
4. Oxidize in **Periodic Acid, 1%** (0-920-3) for 10 minutes. Wash for 5 minutes in running water.
5. Stain for 10 minutes in **Schiff's Reagent** (0-920-4). Wash for 5 minutes in running water.
6. Stain for 5 seconds in **Phosphomolybdic Acid-Orange G Solution** (0-920-5). Rinse briefly in water to remove excess Orange G.
7. Dehydrate and then clear in xylene. Examine the sections while in xylene to see if the Orange G staining is too weak or too intense, and then, if necessary, rehydrate and either restain in **Orange G Solution** (0-920-5) or rinse in further water.
8. Mount with synthetic mounting medium.

STAINING RESULTS:

ACTH/MSH cells	purple, red and orange-red
TSH cells	light to dark purple-blue
Gonadotropin cells	intense red, blue-purple, blue, turquoise
GH cells	orange

REFERENCES:

McManus, J.F.A. and Mowry, R. W., Staining Methods, Histologic and Histochemical, P. B. Hoeber, NY, 1960

Clark, G., (ed.), Staining Procedures, 3rd edition, Williams & Wilkins, Baltimore, p. 166, c1973