

## G-458, MALDONADO'S METHOD FOR PANCREATIC ISLET CELLS

**FIXATION:** **Bouin's without Acetic Acid (F-43)**

**SECTION:** Paraffin @ 6 microns

### **STAINING PROCEDURE:**

1. Deparaffinize and hydrate to distilled water.
2. Stain for 10 minutes in **Phloxine Solution, 1%** (G-458-1) Rinse in distilled water.
3. Place for 1 minute in **Phosphotungstic Acid, 3%** (G-458-2). Rinse in distilled water.
4. Stain for 30 seconds in **Azure II Solution, 0.05%** (G-458-3) Rinse in distilled water.
5. Stain in Weigert's working solution for 1 minute. Rinse in distilled water.  
To prepare Weigert's Working solution:  
Mix just before use:  
1 part **Weigert's A** (G-458-4A)  
1 part **Weigert's B** (G-458-4B) DO NOT REUSE!!!!
6. Dehydrate in 95% alcohol, absolute alcohol and clear in xylene, two changes each.
7. Mount with **Permount** (M-18).

### **RESULTS:**

Alpha cells	Purple
Beta cells	Violet Blue
D-cells	Light blue with evident granules
Exocrine cells	Grayish blue with red granules

### **REFERENCES:**

- Maldonado, R. and San Jose, H. Stain Techn., 42:11-13, 1967  
Luna, L.G., (ed.), Manual of Histologic Staining Methods of the AFIP, 3<sup>rd</sup> edition, McGraw, N.Y.  
p. 105, c. 1968

