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G-455A ALDEHYDE FUCHSIN STAIN FOR PANCRATIC ISLET CELLS

FIXATION: **10% Buffered Neutral Formalin** (F-113) or Bouin's solution. (SO-306)
SECTION: Cut paraffin sections at 6 microns

STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water.
2. Place 50 ml Bouin's solution into a plastic coplin jar. Microwave for 30 seconds to bring the temperature to 60 degree C. Mordant the slide in the heated solution for 10 minute. Save solution.
3. Wash in running tap water until the sections are colorless.
4. Place in working potassium permanganate solution for 1 minute. Pour the used solution into the special stains waste container.

Working Potassium Permanganate solution.

*0.3% Potassium Permanganate stock (G-455A-1)
Sulfuric Acid, 1% aq. (G-455A-2) 30 drops.*

5. Wash in 7 changes of tap water.
6. Differentiate in the **Sodium Bisulfite 4% (G-455A-3)** for 1 minute.
7. Wash in running tap water for 10 minutes.
8. Rinse in two changes of 95% Alcohol
9. Stain in **Aldehyde Fuchsin (G-455A-4)** for 4-5 minutes. Rinse quickly in 95% Alcohol, and then place in distilled water while checking the staining under the microscope. The islets should be dark purple and the background pale blue. Stain longer, if necessary.

10. Wash well in tap water.
11. Counterstain in Nuclear Fast Red (G-455A-5) for 5 minute.
12. Dehydrate rapidly, clear and mount.

RESULTS:

Pancreatic islet.....purple
Nuclei.....Red

REFERENCES:

Luna, L.G.: Histologic Staining Methods, 3rd ed.: New York: McGraw-Hill Book Co. C, 1968.