

Technical Data Sheet

Technovit H7100 / H8100 Periodic Acid Schiff Stain

#14653-14654

Periodic Acid Schiff Stain For Glycol Methacrylate Sections

Procedure

1. Oxidize sections in 0.4% periodic acid for 30 minutes at 57°C.
2. Wash in running tap water or sodium sulfite solution (to avoid a general pink background).
3. Rinse in three times in distilled water.
4. Schiff's Reagent for 15 minutes.
5. Wash well in running tap water.
6. Rinse in distilled water.
7. Counterstain with Gill's Hematoxylin for 10 minutes.
8. Wash well in running tap water.
9. Dehydrate using 95% and 100% ethanol.
10. Clear in xylene and cover slip.

Results

Nuclei	blue
Glycogen	violet / red
Basement membranes	violet / red
Mucine	violet / red

Solutions

Gill's Hematoxylin:

- Hematoxylin (C.I. 75290) - 6 gm
- Sodium Iodate - 0.6gm
- Aluminum Sulfate - 52.8 gm
- Distilled water - 690 ml
- Ethylene Glycol - 250ml
- Glacial acetic acid - 60ml

Schiff's Reagent :

- Mix 0.5gm of Pararosaniline (C.I.#42500) into 15ml of 1N Hydrochloric Acid.
- Mix 0.5gms of Potassium Metabisulfite into 85ml of distilled water.
- Add the second solution to the first and store for 24 hours in a dark place.
- Bleach the resulting solution with 200mg of bone charcoal and filter.
- Store the colorless solution at 4°C.

Sodium Sulfite Solution:

- 0.5gm of sodium sulfite
- 100ml of distilled water