

This procedure is available in kit form from:  
Poly Scientific R&D Corp.  
70 Cleveland Avenue • Bay Shore, NY 11706  
(631) 586-0400

cat# cy009

**PERIODIC ACID SCHIFF REACTION (PAS)**  
**WITH DIASTASE DIGESTION**

- SOLUTIONS:**
1. Periodic Acid 1% Aqueous
  2. Schiff's Reagent
  3. Sodium Meta-Bisulfite 0.5% Aqueous
  4. Pal's Bleach
  5. Fast Green 1% in 1% Acetic Acid
  6. Weigert's Iron Hematoxylin Solutions A & B
  7. Diastase Working Solution

**Prepare fresh each time:**

Diastase Powder.....0.5 g  
Diastase Buffer.....100 ml

**STAINING PROCEDURE:**

Note: Start with step 1 for paraffin sections and step 3 for smears.

1. Deparaffinize in 2 changes of Xylene for 5 minutes each.
2. Hydrate through 2 changes of Absolute Alcohol, 95%, 80% and 70% Alcohols- 15 dips each.
3. Wash in distilled water for 15 dips.
4. Place one slide in Diastase Working solution for 60 minutes at 37C, retain untreated slide in distilled water.
5. Continue stain with both slides. Place in Periodic Acid 1% Aqueous for 10 minutes.
6. Wash in running tap water for 10 minutes.
7. Wash in distilled water – 15 dips.
8. Place in Schiff's Reagent for 15 minutes.
9. Place in three changes of Sodium Meta-Bisulfite 0.5% Aqueous for 2 minutes each.
10. Wash in running tap water for 10 minutes.
11. Place in Weigert's Iron Hematoxylin Working Solution for 4 minutes.
12. Wash in running tap water for 5 to 10 minutes.
13. One dip in Pal's Bleach.
14. Wash in running tap water for 5 minutes.
15. Wash in distilled water – 15 dips.
16. Stain in Fast Green 1% in 1% Acetic Acid for 1 dip.
17. Wash in distilled water for 15 dips.
18. Dehydrate in 95% Ethyl Alcohol and Absolute Alcohol, 2 changes each – 15 dips each.
19. Clear in two changes of Xylene – 15 dips each.
20. Mount with Poly Mount (cat# s2153) or any other acceptable mounting medium.

**RESULTS:**

Glycogen will be unstained in the diastase treated slide.
Carbohydrates and Fungi..... Magenta
Nuclei..... Black
Background.....Green