ScyTek Laboratories

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

Periodic Acid Solution
(For PAS Staining)

Description: Periodic Acid Solution is a component of the Periodic Acid Schiff's procedure that is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material:	Magenta
Nuclei:	Black/Blue (Hematoxylin)

Uses/Limitations:
For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.

Storage: 2-8° Centigrade

Control Tissue: Kidney, Intestine, Liver

Availability/Contents:

Item #	Volume
PAQ250	250 ml
PAQ500	500 ml
PAQ999	1000 ml

Required But Not Included:

Item #	Description
SRF	Schiff's Solution
HMM	Hematoxylin, Mayer's
BRT	Bluing Reagent

Precautions:
Avoid contact with skin and eyes.
May cause burns.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.
Wear protective clothing.

Storage: 2° C 8° C

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Procedure for PAS Stain):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. If sections are Zenker-fixed, remove mercuric chloride crystals using iodine and clear with sodium thiosulfate. Rinse in running tap water.
3. Immerse slide in Periodic Acid Solution (PAQ250) for 5 minutes (10 minutes for Kidney, skin and diastase digested liver sections).
4. Rinse slide in 4 changes of distilled water.
5. Immerse slide in Schiff's Solution (SRF250) for 15 minutes (30 minutes for Kidney, skin and diastase digested liver sections).
6. Rinse slide in hot running tap water.
7. Rinse slide in distilled water.
8. Stain slide in Hematoxylin, Mayer's (HMM125) for 2-3 minutes.
9. Rinse slide in running tap water for 2-3 minutes.
10. Apply Bluing Reagent (BRT125) for 30 seconds.
11. Rinse in distilled water.
12. Dehydrate through graded alcohols.
13. Clear, and mount in synthetic resin.

References:

1. Culling CFA, Allison RT, Barr WT.: Cellular Pathology Technique, 4th Edition. Butterworths, Pages 216-220, 1985.
2. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. CV Mosby, Columbus, OH. Pages 164-167, 1980.

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