

Instructions For Use PAS-IFU

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Periodic Acid Schiff (PAS) Stain Kit

(Modified Lillie's)

Description and Principle

The Periodic Acid Schiff (PAS) Stain Kit 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.

Tissue carbohydrates are oxidized by periodic acid forming aldehydes capable of binding with Schiff's Solution. Visualization of Schiff's is caused by a restoration of the dye's quinoid structure resulting in characteristic magenta staining.

Expected Results

PAS Positive Material:	Magenta
Nuclei:	Black/Blue
<u>Kit Contents</u>	<u>Storage</u>
1. Periodic Acid Solution	2-8° C
2. Schiff's Solution	2-8° C
3. Hematoxylin, Mayer's	18-25°C
4. Bluing Reagent	18-25°C

Suggested Controls (not provided)

Kidney, Intestine, Liver.

Uses/Limitations

For In-Vitro Diagnostic use only. Do not use if reagents become cloudy or precipitate Do not use past expiration date. Use caution when handling reagents. Non-Sterile Intended for FFPE sections cut at 5-10µm. This procedure has not been optimized for frozen sections. Frozen sections may require protocol modification.

Storage

Mixed storage conditions. Store according to individual label instructions.

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

Procedure:

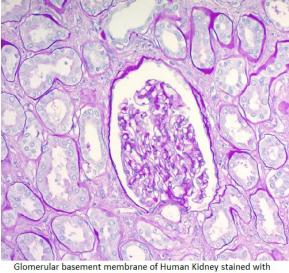
1. Deparaffinize sections if necessary and hydrate to distilled water.

2. If sections are Zenker-fixed, remove mercuric chloride crystals using iodine and clear with sodium thiosulfate. Rinse in running tap water.

3. Apply Periodic Acid Solution for 5 minutes (10 minutes for Kidney, skin, and diastase digested liver sections).

4. Rinse slide in 4 changes of distilled water.

5. Apply Schiff's Solution for 15 minutes (30 minutes for Kidney, skin, and diastase digested liver sections).



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6. Rinse slide for at least 2 minutes in warm running tap water.

Note: A crystal precipitate may be seen when staining with small volumes of Schiff's solution on horizontal slides. This precipitate can be removed by rinsing vigorously in warm tap water for 5 minutes or by reapplying Periodic Acid Solution to the tissue and agitating the slide for 30-60 seconds. These modifications should be performed before counterstaining.

7. Rinse slide in distilled water.

8. Apply Hematoxylin, Mayer's for 1 minute.

9. Rinse in distilled water.

- 10. Apply Bluing Reagent for 10 seconds.
- 11. Rinse in distilled water.
- 12. Dehydrate through graded alcohols.
- 13. Clear, and mount in synthetic resin.

References

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