PERIODIC ACID SCHIFF REACTION (PAS)

	For In Vitro Diagnostic Use:	STAINING PROCEDURE:
PURPOSE:	Intended for the qualitative demonstration of glycogen, mucin and fungi.	1. Deparaffinize and hydrate slides to distilled water.
PRINCIPLE:	Periodic Acid oxidizes glycols to aldehydes. Schiff Reagent then binds to these aldehydes and sulphur is removed from the Schiff Reagent by washing, thereby revealing the fuchsia color.	2. Periodic Acid 0.5% Aqueous for 5 minutes.
		3. Rinse in 4 changes of distilled water.
		4. Schiff Reagent for 15 minutes.
		5. Wash well in water for 10 minutes.
		6. Harris Hematoxylin for 5 minutes.
CONTROL:	Tissue known positive for fungus, liver	7. Wash well in water.
	Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs004 and Item# cs021.	8. Quick dip in Acid Alcohol 0.5%.
		9. Wash well in water.
SPECIMEN PREPARATION:	10% Buffered Formalin, paraffin embedded sections cut at 6 micrometers	10. Bluing Solution 1% Lithium Carbonate, 2 dips.
		11. Wash 5 minutes in water.
		 Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each.
SOLUTIONS:	 Schiff Reagent Item# s272 Periodic Acid 0.5% Aqueous Item# s1860 Acid Alcohol 0.5% Item# s103B Harris Hematoxylin Item# s212 Bluing Solution 1% Lithium Carbonate Item# s127 	 Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.
	Solutions can be purchased separately from Poly Scientific.	RESULTS:
NOTES:		Glycogen, Mucin, Reticulum, Basement Membranes and other Positive ReactionsRose Red
		NucleiBlue
REFERENCE:	Bancroft, J. D. & Stevens, A. <u>Theory and Practice of Histological</u> <u>Techniques</u> . 4th Ed. Churchill Livingston. New York. 1996. p 185.	FungiRose Red

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