RAPID GMS FOR FUNGUS AND PNEUMOCYSTIS CARINII (Microwave)

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of amyloid.	 Deparaffinize and hyd Microwave Periodic A 5 minutes. Wash in 5 changes of Preheat 40 mL of Amn Agitate. Place slides in solution For fugus, let slides st stand 3-4 minutes. Cha timing may occur due Wash in 5 changes of Tone in Gold Chloride Place in Sodium Thios Counterstain in Fast G minute. Rinse quickly. Dehydrate in 95% Alco Mount with Poly Mour
PRINCIPLE:	Chromic Acid oxidizes the polysaccharides contained in the cell walls of fungus and other organisms to aldehydes. These aldehydes then reduce silver from the Methenamine Silver to the invisible metallic form. Gold replaces some of the silver, toning it. A counterstain is applied to the contrast.	
CONTROL:	Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs013.	
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6 micrometers	
SOLUTIONS:	 Periodic Acid 1% Aqueous Item# s1861 Ammoniacal GMS Solution Item# s2602 Gold Chloride 0.5% Aqueous Item# s2364 Sodium Thiosulfate 5% Item# s1895 Fast Green Substitute For Light Green Working Solution Item# s232B Solutions can be purchased separately from Poly Scientific. 	
NOTES:	Variations in timing may occur due to the power wattage of the microwave oven. Provided times and power levels are based on 1000 watt microwave oven.	Fungi Pneumocystis
REFERENCE:	Grocott, R.G. "Grocott's Method For Fungi". <u>Amer. J. Path</u> . 25. 1955. pp. 975-979.	Mucin Background

STAINING PROCEDURE:

- trate slides to distilled water.
- cid 1% at power 5 for 30 seconds then place slides in it for
- distilled water.
- moniacal GMS Solution on high power for 30 seconds.
- n and heat for an additional 30 seconds at power 5.
- tand in solution for 1 minute. For Pneumocystis Carinii, let eck slides frequently during this step since variations in to the power wattage of the microwave.
- distilled water.
- 0.5% for 1 minute. Rinse in distilled water.
- sulfate for 2 minutes. Rinse in distilled water.
- Green Substitute For Light Green Working Solution for 1
- phol, Absolute Alcohol and clear in Xylene, 2 changes each.
- nt (Item# s2153) or any other acceptable mounting medium.

RESULTS:

Fungi	Black
Pneumocystis	Black to Blue Black
Mucin	Taupe to Gray
Background	Green

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