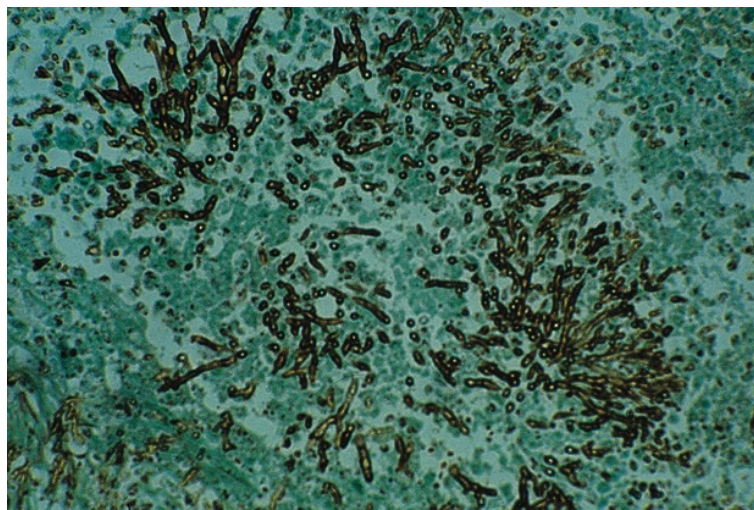




GROCOTT

Microwave procedure



Lung

CODE	DESCRIPTION	TESTS NUMBER
04-043823W	Grocott (for microwave procedure)	120 test (40 preparations of 40 ml)



In Vitro Diagnostic – medical device
IVD in **Class A**, Reg. UE 2017/746
UDI-DI: 08033976230807
Basic UDI: 080339762W01030799Y5



Manufacturer: Bio-Optica Milano S.p.A.

Product for the preparation of cyto-histological samples for optical microscopy.
To demonstrate fungi in tissue sections.

PRINCIPLE

In most fungi, cell walls are made of chitin, a polymer of N-acetylglucosamine together with polymers of D-glucose and D-mannose, proteins and lipids. Periodic acid reacts with glycolic and glycoaminic groups in polysaccharide chain oxidising them to aldehydic groups and thus breaking the chain itself. These newly formed aldehydic groups reduce silver chloride, which is part of the silver-methenamine complex, to metallic silver and make it visible.

WARNING

For good results, follow these rules:

- Avoid to infect section and slide with no pathogenic fungi (handle only with gloves, do not expose preparation to air)
- Use always fresh distilled water.
- Use only clean glasswork.
- Avoid deposit of dust on section.
- Avoid contact between solutions and metal objects (tweezers...)

METHOD

- 1) Bring section to distilled water.
- 2) Put on the section 10 drops reagent A: leave to act 20 minutes.
- 3) Wash in running tap water for a few seconds.
- 4) Put on the section 10 drops of reagent B for 1 minute.
- 5) Wash in tap water for 5 minutes.
- 6) Rinse in 4 changes of distilled water.
- 7) In a plastic Coplin Jar 50 ml, put 40 ml of distilled water and add 30 drops of reagent C, 15 drops of reagent D and 20 drops of reagent E. Stir briefly with a glass stick previously washed in distilled water.
- 8) Put the section in the Coplin Jar and incubate in microwave oven at 500 watt for 1 minute.
- 9) Take out the Coplin Jar from oven and let it cool for 5 minutes.
- 10) Wash in 6 changes of distilled water.
- 11) Put on the section 10 drops of reagent F for 3 minutes.
- 12) Wash in distilled water.
- 13) Put on the section 10 drops of reagent G for 5 minutes.
- 14) Wash in tap water.
- 15) Put on the section 10 drops of reagent H for 30 seconds.
- 16) Dehydrate through ascending alcohols, clear in xylene and mount.

Technical details

Method specifications	Procedure time	50 minutes	
	Complementary equipment	Plastic Coplin Jar 50 ml, graduated cylinder, glass stick	
	Results	Fungi:	Sharply delineated in black
		Mucines:	Dark grey
Background:		Green	
Components	A) Periodic acid solution	30 ml	
	B) Sodium bisulphite solution	30 ml	
	C) Hexamethylenetetramine solution	30 ml	
	D) Silver nitrate solution	30 ml	
	E) Sodium borate solution	30 ml	
	F) Gold chloride solution	30 ml	
	G) Sodium Thiosulfate solution	30 ml	
	H) Light green solution	30 ml	
Storage	Storage	Store the preparation at 2-8°C. Keep the containers tightly closed	
	Storage temperature	2-8°C	
	Stability	After the first opening, the product is reusable until the expiry date, if correctly stored.	
	Validity	1 year	
Warning	Product classification	<p>The product is intended for professional laboratory use for healthcare professionals.</p> <p>Carefully read the information on the label (danger symbols, risk and safety phrases) and always consult the safety data sheet. Do not use if the primary container is damaged.</p> <p>In the event of a serious accident, we recommended that you immediately inform Bio-Optica Milano S.p.A and the competent authorities.</p>	
	Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.	

REVISION n°	REASON	REVISION DATE
001	Regulation adjustment UE 2017/746 - IVDR	16/05/2022