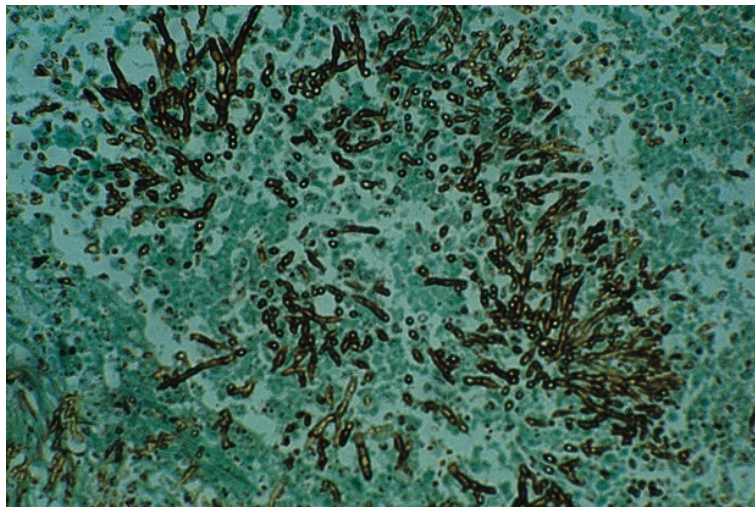




GROCOTT



Lung

CODE	DESCRIPTION	TESTS NUMBER
04-043823	Grocott	120 test (60 preparations)



In Vitro Diagnostic – medical device
IVD in **Class A**, Reg. UE 2017/746
UDI-DI: 08033976230784
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 of 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 one of the enclosed slide-holder put 17 ml of distilled water and add 20 drops of reagent C, 10 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 holder and incubate in oven at 60 °C for 1 hour.
- 9) Take out the holder from oven and let it cool for 10 minutes.
- 10) Wash in 6 changes of distilled water.
- 11) Put on the section 10 drops of reagent F: leave to act for 3 minutes.
- 12) Wash in distilled water.
- 13) Put on the section 10 drops of reagent G: leave to act 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	1 hour and 50 minutes		
	Complementary equipment	Graduated cylinder, glass stick, oven		
	Results	Fungi:	Sharply delineated in black	
		Mucines:	Dark grey	
Background:		Green		
Components	A) Periodic acid solution	30 ml		
	B) Sodium bisulfide 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