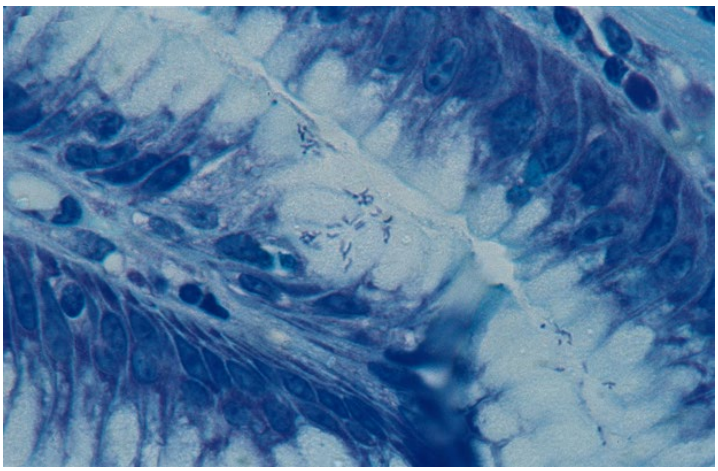
Bio - Optica
Improving Pathology

Data Sheet

CE

MAY GRUNWALD GIEMSA

For sections



Gastric biopsy

CODE	DESCRIPTION	TESTS NUMBER
04-081802	May Grunwald Giemsa for sections	100

IVD

In Vitro Diagnostic – medical device
Codice CND: W01030799
IVD in **Class A**, Reg. UE 2017/746
UDI-DI: 08033976230975
Basic UDI: 080339762W01030799Y5

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

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Product for the preparation of cyto-histological samples for optical microscopy.
Recommended method to differentiate cell types and to reveal parasites in tissue sections. Especially useful for lymphopoietic tissue. This stain is often used to demonstrate endothelial reticulum.

PRINCIPLE

- May Grunwald solution, consisting of eosin-methylene blue, stains nuclei blue and basophil cytoplasm pinkish red.
- Giemsa solution, a complex consisting of methylene blue chloride, eosin-methylene blue and azure II eosinate, improves the intensity of nuclear staining and the capacity to show selectively cellular structures.
To appreciate results always remember two factors: pH of washing water and dilution buffer have a strong influence on final colour chart; intensity of stain may vary according to differentiation time.

METHOD

1) Deparaffinise section and bring to ethanol 70°.
2) Preparation of buffer solution: in the enclosed capsule introduce 20 ml of distilled water; add 10 drops of concentrated solution B. This solution is called “buffer solution B” in the method.
3) Put on the section 10 drops of buffer solution B: leave to act 2 minutes.
4) Drain the slide and put 10 drops of reagent A and 5 drops of buffer solution B: leave to act 5 minutes.
5) Pipette 10 ml of buffer solution B and wash carefully the slide in this solution.
6) Put in capsule 5 drops of reagent C and 10 drops of buffer solution B, shake the solution and put it on the slide: leave to act 12 minutes.
7) Differentiate in:

Ethanol 95°	10 seconds
Absolute ethanol	30 seconds
Absolute ethanol	30 seconds

8) Clear in xylene and mount.

The picture is for illustrative purposes only

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Technical details

Method specifications	Procedure time	35 minutes	
	Complementary equipment	Graduated cylinder	
	Results	Nuclei:	Red-violet, pink
		Basophil cytoplasm:	From pale blue to dark blue
		Acidophil cytoplasm:	From pale red to pink
		Bacteria	Blue
Components	A) May Grunwald staining solution	30 ml	
	B) Concentrated buffer solution	30 ml	
	C) Giemsa staining solution	30 ml	
Storage	Storage	Store the preparation at room temperature. Keep the containers tightly closed.	
	Storage temperature	15-25°C	
	Stability	After the first opening, the product is reusable until the expiry date, if correctly stored.	
	Validity	2 years	
Warning	Product classification	The product is intended for professional laboratory use for healthcare professionals. 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. In the event of a serious accident, we recommended that you immediately inform Bio-Optica Milano S.p.A and the competent authorities.	
	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

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