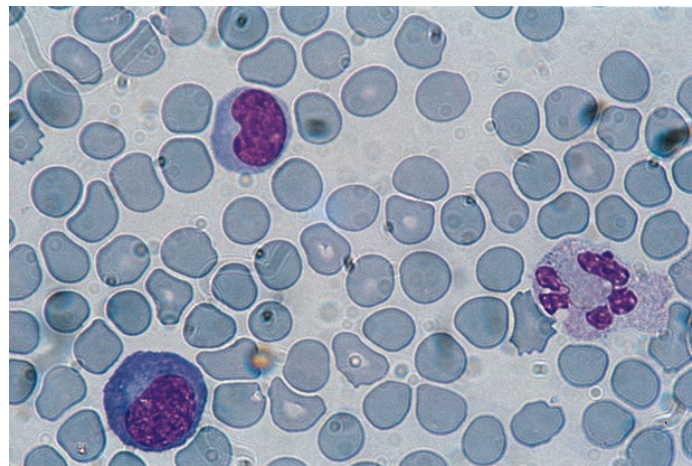




MAY GRUNWALD GIEMSA

For smears



Blood smear

CODE	DESCRIPTION	TESTS NUMBER
04-080802/L	May Grunwald Giemsa for smears	N.A.



In Vitro Diagnostic – medical device
IVD in **Class A**, Reg. UE 2017/746
UDI-DI: 08033976230968
Basic UDI: 080339762W01030799Y5



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

Product for the preparation of cyto-histological samples for optical microscopy.

Recommended method to differentiate cell types and to reveal parasites in blood smears, morphologic details in spleen tissue, lymph node tissue and marrow, to demonstrate bacteria, rickettsia and mast cells granulation in sputum and organic aspirates. Particularly recommended to detect Trichomonas in vaginal smears.

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) Prepare working solution of the reagent B: dilute 1:10 reagent B with running tap water. Keep buffer solutions at 4-6 °C.
- 2) Immerse the smears in reagent A: leave to act 5 minutes.
- 3) Wash in running tap water for 1 minute.
- 4) Immerse the smears in reagent C (previously diluted 1:10 with reagent B - working solution) for 15 minutes.
- 5) Wash in running tap water for 1 or 2 minutes.
- 6) Dry the smears with filter paper then in the air for 5 minutes.



The picture is for illustrative purposes only

Technical details

Method specifications	Procedure time	35 minutes		
	Complementary equipment	Volumetric flask 1000 ml, graduated cylinder 100 ml, Coplin Jar 100 ml		
	Results	Nuclei:	Red-violet, pink	
		Basophil cytoplasm:	From pale blue to dark blue	
		Acidophil cytoplasm:	From pale red to pink	
		Polychromatophilic cytoplasm:	From grey to violet	
		Acidophil granules:	Orange	
		Neutrophil granules:	Brown-dark pink	
		Basophil granules:	Dark violet	
Azurophilic granules:		From purple to purplish violet		
Components	A) May Grunwald staining solution	1000 ml		
	B) Phosphate buffer solution 10x	1000 ml		
	C) Giemsa staining solution	1000 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	<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