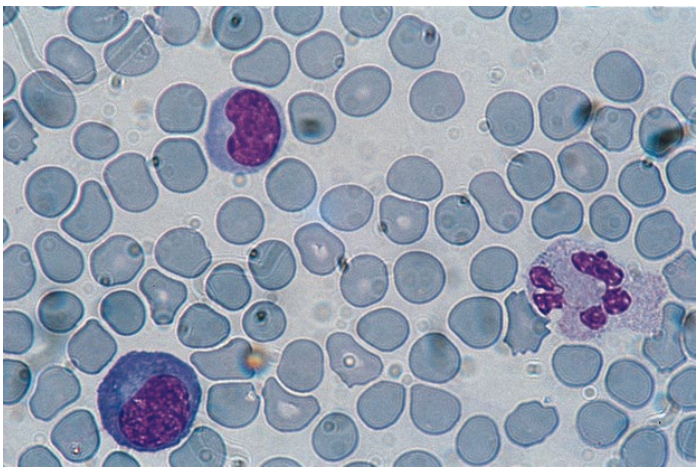
Bio - Optica
Improving Pathology

Data Sheet

CE

MAY GRUNWALD GIEMSA

For smears



Blood smear

CODE	DESCRIPTION	TESTS NUMBER
04-080802	May Grunwald Giemsa for smears	50 working solutions (100 ml each)

IVD

In Vitro Diagnostic – medical device
IVD in **Class A**, Reg. UE 2017/746
UDI-DI: 08033976230951
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 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) In a volumetric flask 1000 ml, put 100 ml of reagent B (buffer - concentrated solution) and reach the volume with running tap water (buffer - working solution). Keep buffer solutions at 4-6 °C.
2) Put 10 drops of reagent A on the slide: leave to act 5 minutes. N.B. Step 2 may be done in a Coplin Jar without modifying working times. In this case, reagent should be kept for further use.
3) Wash in running tap water for 1 minute.
4) Add 10 ml of reagent C in a cylinder with 90 ml of buffer solution B (working solution), pour the obtained solution in a Coplin jar and immerse the slide for 15 minutes.
5) Wash in running tap water for 1 or 2 minutes.
6) Dry the slide with filter paper then in the air for 5 minutes.

The picture is for illustrative purposes only

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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	500 ml	
	B) Phosphate buffer solution 10x	500 ml	
	C) Giemsa staining solution	500 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