

May Grünwald solution



IVD In-vitro diagnostic medical device
EMDN : W0103010301
BASIC UDI: 080339762W0103010301AJ
IVD in **Classe A**, Reg. UE 2017/746

Catalog number	Unit size	UDI-DI
05-M12002	500 ml	08033976234867
05-12002/L	1 l	08033976232610
05-12002E	2,5 l	08033976232627

Packaging

05-12002E

Primary container: white bottle in polyethylene terephthalate (PET). Useful capacity 2.5 liters. HDPE cap.

Tamper evident cap.

The polyethyleneterephthalate is a thermoplastic polymer of the polyester family. PET is an optimal oxygen, carbon dioxide and other gasses barrier. This material has an high resistance to ultraviolet radiation and an inertia toward the mainly chemical agents (solvents: xylene, limonene, liquid paraffines, alcohols, acids, bases etc.). It is biologically inert. It constitutes a good water and humidity barrier. It shows a great hardness and mechanical resistance.

The bottle has an optimal grip. The absence of the handles reduces space for storage. The anti-dropping cap permits a precise and clean use.

Secondary container: carton box.

05-12002/L

Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 1 HDPE cap. Tamper evident cap.

- 05-M12002 Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 500 ml. HDPE cap. Tamper evident cap.

Wear, water, alcohol and solvents resistant PVC label. Scratchproof ink resistant to water and alcohol.

Expected aim

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

Application

Staining method for different kind of cells in blood and bone marrow smears.

For the execution of the staining method is required the use of Giemsa solution.

Principle

Two dyes are used one after the other:

- May Grünwald solution, consisting of eosin-methylene blue, stains nuclei blue and basophil cytoplasm in pinkish red;

- Giemsa solution, 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 waters and dilution buffer have a strong influence on final colour chart; intensity of stain may vary according to differentiation time.

Method

- 1) Air dry smears
- 2) May Grünwald solution, 5 minutes
- 3) Wash in tap water, 1 minute
- 4) Giemsa ready to use solution, 15 minutes
- 5) Wash in tap water, 1-2 minutes
- 6) Air dry

Results

Nuclei : violet red purple
 Lymphocyte cytoplasm : different blue tonalities
 Monocyte cytoplasm : blue-grey
 Eosinophil granulocytes (acidophil granules) : brick red – orange
 Basophil granulocytes (basophil granules) : dark violet
 Neutrophil granulocytes (neutrophil granules) : pink-brown
 Erythrocytes : pink –grey

Components

Components	CAS	CE	Index
Eosin Methylene blue	-	-	-
Methanol	67-56-1	2006596	603-001-00-X

Warning and precaution

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.

Storage

Store the preparation at 15-25°C. Keep the containers tightly closed.

Stability

After the first opening, the product is reusable until the expiry date, if correctly stored. Validity: 2 years.

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