

## **Giemsa solution**

IVD In-vitro diagnostic medical device CE

CND Code: W0103010301

Catalog number	Unit size				
05-M12005	500 ml				
05-12005/L	11				
05-12005E	2,5 l				
Packaging	<ul> <li>- 05-12005E</li> <li>Primary container: white bottle in polyethylene terephthalate (PET). Useful capacity 2.5 liters. HDP Tamper evident cap.</li> <li>The polyethylenterephthalate 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 parafialcohols, acids, bases etc.). It is biologically inert. It constitutes a good water and humidity barrier. I shows a great hardness and mechanical resistance.</li> <li>The bottle has an optimal grip. The absence of the handles reduces space for storage. The anti-droc cap permits a precise and clean use.</li> <li>Secondary container: carton box.</li> </ul>	fines, t			
	- 05-M12005 Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 500 ml. H Tamper evident cap.				
	- 05-12005/L Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 1 I. HDPE cap Tamper evident cap.	þ.			
	Wear, water, alcohol and solvents resistant PVC label. Scratchproof ink resistant to water and alcoh	nol.			
Expected aim	Product for the preparation of cyto-histological samples for optical microscopy.				
Application	Reagent used with May Grünwald for the staining of different kind of cells in blood and bone marrow smears. This staining is also used to highlight the Helicobacter pylori in histology. For the execution of the staining method is required the use of May Grünwald solution.	N			
Principle	<ul> <li>Two dyes are used one after the other:</li> <li>May Grünwald solution, consisting of eosin-methylene blue, stains nuclei blue and basophil cytopl pinkish red;</li> <li>Giemsa solution, complex consisting of methylene blue chloride, eosin-methylene blue and azure eosinate, improves the intensity of nuclear staining and the capacity to show selectively cellular structures.</li> <li>To appreciate results always remember two factors: pH of washing waters and dilution buffer have strong influence on final colour chart; intensity of stain may vary according to differentiation time.</li> </ul>	II			
Method	1) Air dry smears       5 minute         2) May Gruenwald solution       5 minute         3) Wash in tap water       1 minute         4) Giemsa working solution*       15 minut         5) Wash in tap water       15 minut         6) Air dry       1-2 minu         *Preparation of Giemsa working solution:         Dilute Giemsa solution in distilled water at ratio 1 : 10 (1 part of Giemsa solution + 9 parts of distilled water).	es ites			



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 - Azur II	-	-	-		
	Glycerin	56-81-5	2002895	-		
	Methanol	67-56-1	2006596	603-001-00-X		
Warning and precaution	The product must be used exclusively by specialized technical operators. Carefully read the information on the classification of dangerous substances on the label. Always refer to the safety data sheet where are available the information on the risks presented by the mixture, the precautionary measures during use, the measures first aid and the intervention in the event of accidental release. Do not use if the primary container is damaged.					
Storage	Store the preparation at 15-30°C. Keep the containers tightly closed.					
Stability	After the first opening, the product is usable until the expiry date, if correctly stored. Validity: 2 years					
Disposal	Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.					

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