

Methylene Blue solution - Ziehl Neelsen

IVD In-vitro diagnostic medical device **CE**

CND Code: W01030708

Catalog number	Unit size
05-B20003	150 ml
05-20003/L	1 l

Packaging	<p>- 05-B20003 Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 150 ml. HDPE cap. Tamper evident cap.</p> <p>- 05-20003/L Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 1 l. HDPE cap. Tamper evident cap.</p> <p>Wear, water, alcohol and solvents resistant PVC label. Scratchproof ink resistant to water and alcohol.</p>	
Expected aim	Product for the preparation of cyto-histological samples for optical microscopy.	
Application	Counterstain used in the Ziehl Neelsen method.	
Principle	Ziehl Neelsen method: acid resistance is a particular dyeing features of mycobacteria. Once they have been stained with carbol fuchsin they have the capacity to remain red even if they undergo strong decolorizations. Acid resistance is usually ascribed to the special composition of mycobacteria's cell walls, which are very rich in lipides. The methylene blue in solution appropriately diluted constitutes the counterstain.	
Method	<p>Histology</p> <ol style="list-style-type: none"> 1) Sections to water 2) Periodic acid solution 3) Wash in distilled water 4) Carbolfuchsin solution 5) Wash in distilled water 6) Decolorizing solution 7) Wash in tap water 8) Methylene blue solution 9) Wash in tap water 10) Dehydrate 11) Clear in xilene and mount <p>Microbiology</p> <ol style="list-style-type: none"> 1) Carbolfucshin solution 2) Wash in tap water 3) Decolorizing solution 4) Wash in tap water 5) Methylene blue solution 6) Wash in tap water 7) Dry in the air 	<p>15 minutes</p> <p>30 minutes</p> <p>1 minute</p> <p>3 minutes</p> <p>30 seconds</p> <p>10 minutes</p> <p>1 minute</p> <p>30 seconds</p>
Results	Acid resistant bacteria	Red
	Background.....	Blue

Components

Components	CAS	CE	Index
Methylene Blue C.I. 52015	61-73-4	2005152	-
Deionized water			

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 room temperature. 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.

References

- Berg JW. Chemistry of acid-fastness Proc Soc Exp Biol Med 1953; 84: 196-198.
- Lillie RD. Acetic methylene blue counterstain in staining tissue in acid fast bacilli. Stain Technol 1944; 19-45

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