

TB MALACHITE GREEN REAGENT

IVD In vitro diagnostic medical device

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For use in TB-Stain Cold kit INSTRUCTIONS FOR USE

REF Catalogue number: TBM-OT-100 (100 ml) TBM-OT-250 (250 ml) TBM-OT-500 (500 mL) TBM-OT-1L (1000 mL)

TBM-OT-2.5L (2500 mL)

Introduction

TB Malachite Green reagent is used for staining acid resistant bacteria according to Kinyoun. This method stains all the elements of the bacterial cell except in the case of acid resistant bacteria that remain stained with their primary dye. Unlike staining according to Ziehl-Neelsen, staining according to Kinyoun does not require heating, and the background is stained green (as opposed to blue).

Product description

• TB MALACHITE GREEN REAGENT - Green contrasting dye for detecting acid resistant bacteria.

Other slides and reagents that may be used in staining:

- Glass slides used in microbiology, such as VitroGnost ECONOMY GRADE or glass slides used in cytology, such as VitroGnost STANDARD GRADE or high quality
 glass slides used in histopathology, such as VitroGnost SUPER GRADE or one of more than 30 models of VitroGnost glass slides.
- · Primary dye solution for use in staining methods according to Ziehl-Neelsen or Kinyoun, such as BioGnost's TB Carbol Fuchsin reagent
- Decolorizer solution for use in staining methods according to Ziehl-Neelsen or Kinyoun, such as BioGnost's TB Decolorizer solution
- · Counterstain solution for use in staining methods according to Ziehl-Neelsen, such as BioGnost's Methylene Blue Loeffler reagent.
- BioGnost's immersion media, such as immersion oil, Immersion oil, types A, C, FF, 37, or Immersion oil Tropical Grade

Preparing the sample for staining

- Transfer the sample on a clean glass slide using a sterilized smear loop.
 Note: Acceptable samples include sputum, lumbar puncture sample, sediment or a histological section.
- Spread the sample evenly across the glass slide using 1-2 drops of saline solution.
- Fix the sample using the Bunsen burner after drying by wriggling the glass slide through the cone of flame for 2-3 times. Note: Samples can be fixated in an oven at temperature 100°C-110°C for 20 min.
- Cool the glass slide and begin the process of staining.
 Note: If the sample is a histological section, it should be applied using standard histological techniques.

Sample staining procedure

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1.	Cover the samples completely with the TB Carbol Fuchsin reagent.						
2.	Rinse with tap water until the dye destains.						
3.	Cover the sample using using TB Decolorizer and let it set for 15-30 seconds (depending on the sample thickness).	15-30 seconds					
4.	Rinse with tap water.						
5.	Stain with TB Malachite Green reagent	60 seconds					
6.	Rinse with tap water thoroughly.						
7.	Dry the section						

Results

Acid fast bacteria - red Background - green

Note

Microbiology staining procedures are not standardized and they depend on standard operating procedures of individual laboratories and the experience of the personnel conducting the staining procedure. Intensity of staining depends on the period of immersion in the dye. Depending on personal requests and standard laboratory operating procedures, sample processing and staining can be carried out according to other protocols.

Preparing the sample and diagnostics

Use only appropriate instruments for collecting and preparing the samples. Process the samples with modern technology and mark them clearly. Follow the manufacturer's instructions for handling. In order to avoid mistakes, the staining procedure and diagnostics should only be conducted by authorized and qualified personnel. Use only microscope according to standards of the medical diagnostic laboratory. In order to avoid an erroneous result, a positive and negative check is advised before application.

Safety at work and environmental protection

Handle the product in accordance with safety at work and environmental protection guidelines. Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines. Chemicals used in this procedure could pose danger to human health. Tested tissue specimens are potentially infectious. Necessary safety measures for protecting human health should be taken in accordance with good laboratory practice. Act in accordance with signs and warnings notices printed on the product's label, as well as in BioGnost's material safety data sheet.

Storing, stability and expiry date

Keep TB Malachite Green reagent in a tightly sealed original packaging at temperature of 15 to 25 °C. Do not keep in cold places, do not freeze and avoid exposing to direct sunlight. Date of manufacture and expiry date are printed on the product's label.

- Madison B (2001). "Application of stains in clinical microbiology". *Biotech Histochem* 76 (3): 119-25.
 Ryan KJ, Ray CG (editors) (2004). *Sherris Medical Microbiology* (4th ed.). McGraw Hill.
 Margaret A. Bartelt, 2000: Diagnostic Bacteriology: A Study Guide, F.A. Davis Company.

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	i Refer to supplied	类	Keep away from heat and sunlight	\Box	Valid until	LOT	Lot number	1	*	Manufacturer		CROATIA www.biognost.com	
IV	For <i>in vitro</i> diagnostic use only	†	Keep in dry place	⊈	Caution - fragile						-		