

Toluidine blue O

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

CND Code: W01030708

Catalog number	Unit size
05-B23001	150 ml
05-M23001	500 ml

Packaging - 05-B23001
Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 150 ml. HDPE cap. Tamper evident cap.

- 05-M23001
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
Histology
Metachromatic staining of acid substances, mast cell granules, acid substance of cartilage and some epithelial mucins.
Microbiology
For rapid detection of *P. carinii* on lung biopsy imprints and bronchoalveolar lavage samples.

Principle
Gastric surface epithelial mucin, normally unstained by the alcian dyes, after oxidation by periodic acid stains strongly and form an insoluble compound that will not be affected by the second part of the procedure when toluidine blue solution will stain bacteria.

Method
Histology
1) Sections to water
2) Toluidine Blue O 1 - 2 minutes
3) Wash in distilled water
4) Cover directly with coverslide
Note: to avoid metachromasia reduction in permanent preparations, first dry with filter paper, then in air and successively clear in xylene.
Microbiology
1) Air dry the slide
2) Sulfatation reagent
3) Toluidine Blue O 1 - 5 minutes
4) Fix the specimen in absolute ethanol
5) Examine under microscope at x100 to x1000

Results
Histology
metachromatic substances different blue tonalities
Microbiology
P. carinii reddish blue or purple
Background.....light blue

Components

Components	CAS	CE	Index
Toluidine blue O	92-31-9	2021462	-
Glycerol	56-81-5	2002895	-
Ethanol 95°	64-17-5	2005786	603-002-00-5
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. Product validity: 2 years.

Disposal

Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.

References

- G. Clark. Staining Procedures fourth edition. Williams and Wilkins
- H. J. Conn's. Biological stains. R. D. Lillie, M.D.

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