



Mayer's Hematoxylin

Nuclear staining



In-vitro diagnostic medical device

BASIC UDI: 080339762W01030708X8

IVD in **Classe A**, Reg. UE 2017/746

Catalog number	Unit size	UDI-DI
05-M06002	500 ml	08033976230036
05-06002/L	1 l	08033976232214
05-06002E	2,5 l	08033976234218

Packaging

- 05-06002E

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 a 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-M06002

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

- 05-06002/L

Primary container: white bottle in High Density Polyethylene (HDPE). Useful capacity 1 l. 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 solution for nuclear staining of tissue sections fixed in formalin and embedded in paraffin.

Perhaps it is the most nuclear staining solution used in routine histopathology. It gives a final color well balanced between nuclear and cytoplasmic staining in hematoxylin-eosin

method.

Principle In the Mayer's Hematoxylin the active chemical species is the complex formed by hematein (hematoxylin oxidized by potassium iodate) with potassium aluminum sulfate. This complex has a positive charge and is therefore able to bind to anionic sites present in the chromatin histone proteins.

Method

- 1) Sections to distilled water
- 2) Mayer's Hematoxylin, 5 minutes
- 3) Colour change in tap water, 3-5 minutes
- 4) 1% eosin (water solution), 5 minutes
- 5) Tap water, 5 minutes
- 6) Dehydrate
- 7) Clearing agent and mount

Results
Nuclei : purple
Cytoplasm : pink-red

Components	CAS	CE	Index
Certified hematoxylin	517-28-2	208-237-3	-
Potassium aluminium sulfate	7784-24-9	233-135-3	-
Potassium iodate	7758-05-6	231-831-9	-
Acetic acid	64-19-7	200-580-7	607-002-00-6
Stabilizers			

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.

References

REVISION N°	REASON	REVISION DATE
001	Regulation adjustment UE 2017/746 - IVDR	16/05/2022