

Papanicolaou EA50 cytoplasmic staining

IVD In-vitro diagnostic medical device **CE**
CND Code: W01030708

Catalog number	Unit size
05-12019	500 ml
05-12019/L	1 l
05-12019E	2.5 l

Packaging

- 05-12019E

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.

- 05-12019

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

- 05-12019/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: gynecological specimens, urine cytology, fine needle specimens, sputum and bronchial washings, to be examined by optical microscopy.

Application

Cytoplasmic staining solution for Papanicolaou method.

For the execution of the staining method is required the use of reagents Papanicolaou Harris hematoxylin and Papanicolaou OG6.

Principle

A highly selective blue nuclear stain, Harris' hematoxylin, is combined with EA50 polychromic mixture, a subtle cytoplasmic stain which differentiates cyanophil cells from eosinophil ones. The last ingredient is OG6 solution, which stains keratinized elements.

Method

1) Ethanol 95°	2 minutes
2) Distilled water	2 minutes
3) Harris Hematoxylin	1 minute
4) Tap water	5 minutes
5) Ethanol 95°	15 seconds
6) OG 6	2 minutes
7) Ethanol 95°	15 seconds (twice)
8) EA 50	5 minutes
9) Ethanol 95°	15 seconds
10) Absolute Ethanol	30 seconds (twice)
11) Xilene or Bio Clear	2 minutes (twice)

Results

Nuclei	Blue-purple
Cyanophil cytoplasm	Blue-green
Eosinophil cytoplasm	Pink
Keratinized cytoplasm	From pink to orange

Components

Components	CAS	CE	Index
Eosin Y Certified CI 45380	17372-87-1	241-409-6	-
Light green CI 42095	5141-20-8	225-906-5	-
Phosphotungstic acid	12501-23-4	-	-
Ethanol 95°	64-17-5	200-578-5	603-002-00-5

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.

References

- Gill, G.W.: Bismarck brown and Papanicolaou EA stains. The Scanner. 14(3) :2, 1975.
- Pharr, S. L., Wood, D.A. and Traut, H.F.: A simplified method of preparing EA and orange G stains. Am. J. Clin. Path. 24:239-242, 1954.

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