

EOSIN Y powder dye, C.I. 45380

IVD *In vitro* diagnostic medical device



Eosin Yellowish, Acid Red 87, Eosin WS, BSC certified

Counterstain to hematoxylin, and for preparation of EA Pap stains and polychromatic hematological stains

INSTRUCTIONS FOR USE

REF Catalogue number: EOY-P-25 (25 g) EOY-P-100 (100 g) EOY-P-500 (500 g)

Introduction

Histology, cytology and other related scientific disciplines study the microscopic anatomy of tissues and cells. In order to achieve a good tissue and cellular structure, the samples need to be stained in a correct manner. Eosin Y powder dye is used in various staining methods in microscopy. It is most commonly used as a counterstain to hematoxylin during the HE staining process, one of the most common types of staining used in histology. It provides optimal results diluted in both water and ethanol. Eosin Y is one the dyes in Pap stain solutions used for staining cytological samples tested for cervical cancer. It is used as a part of many methods, as well as for preparing the Romanowsky stains. Eosin Y is used in concentrations ranging from 0.5%-5% diluted in water or in ethanol.

Product description

- EOSIN Y** - Biological Stain Commission (BSC) certified powder dye for preparing microscopic analysis of cytological and histological samples.

Other preparations and reagents used in preparing the dye solution:

- Glacial acetic acid (CH_3COOH)

Preparing the solutions for staining

0.1% aqueous eosin solution:

- Dissolve 1 g of Eosin Y stain in 1 liter of distilled/demineralized water.
Note: An optimal pH value range for Eosin Y solution falls between 4.6-6. Add glacial acetic acid according to personal requests and priorities in order to maintain pH value in that range.
- Filter before use.

Result

Nuclei - dark blue

Cytoplasm, elastin, collagen - red-orange

Erythrocytes - yellow-orange

Note

The mentioned formulation is only one of the ways of preparing the dye solution. Eosin Y is most commonly used as counterstain to hematoxylin and for and for preparation of EA Pap stains and polychromatic hematological stains. Depending on personal requests and standard laboratory operating procedures, the dye solution can be prepared 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. Both positive and negative controls are recommended before applying.

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 which is available on demand.

Storing, stability and expiry date

Keep Eosin Y powder dye in a tightly closed original package at temperature between 15°C and 25°C. Keep in dry places, do not freeze and avoid exposure to direct sunlight. Expiry date is stated on the product's label.

References

- Conn, J. (1977): Biological Stains, 9th ed., Baltimore: Williams and Wilkins Co.
- Kiernan, J. A. (2008): Histological and Histochemical Methods, Theory and Practice, 4th ed., Banbury: Scion Publishing Ltd.
- Carson, F. L., Hladik, C. (2009): Histotechnology: A Self-Instructional Text, 3rd ed., Chicago: ASCP Press

EOY-P-X, V5-EN4, 30 September 2015, VR/IŠP

	Refer to the supplied documentation		Storage temperature range		Number of tests in package	REF	Product code		European Conformity
	Refer to supplied instructions		Keep away from heat and sunlight		Valid until	LOT	Lot number		Manufacturer
IVD	For <i>in vitro</i> diagnostic use only		Keep in dry place		Caution - fragile				

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