

SAFRANINE O powder dye, C.I. 50240

IVD In vitro diagnostic medical device CE

Safranin, Basic Red 2, Safranine T, Phenazinium, C.I., BSC certified dye
For use in microbiology and histology

INSTRUCTIONS FOR USE

REF Catalog number: SO-P-25 (25 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. Safranine O powder dye is intended for microscopy staining using different methods. It is most commonly used for staining according to Gram as a counterstain. Also used for staining bacterial spores, demonstration of glycosaminoglycans and nuclei in human and animal samples. Safranine O is a red cation dye used for examining plant anatomy.

Product description

SAFRANINE O - Biological Stain Commission (BSC) certified powder dye for preparing the solution for staining lignin and plant nuclei as well as staining Gram-negative bacteria.

Other slides and reagents that may be used in staining:

- 96% ethanol (C₂H₅OH)

Preparing the dye solution

Basic Safranine O dye solution:

- Dissolve 2.5 g of Safranine O dye in 100 ml of 96% ethanol by mixing.

Working Safranine O dye solution:

- Mix 10 ml of basic solution with 90 ml of distilled/demineralized water.

Result

Gram positive microorganisms - blue-purple

Gram negative microorganisms - pink to red

Note: The results are valid for Gram staining method with Crystal Violet powder dye and Gram Lugol solution.

Note

The mentioned formulation is only one of the ways of preparing the dye solution. Safranine O dyes are most commonly used according to Gram method. 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.

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 Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines. Reagents 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 the Safranine O powder dye in a tightly closed original package at room temperature. 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.

References

1. Conn, J. (1977): Biological Stains, 9th ed. Baltimore: Williams and Wilkins Co.
2. Carson, F. L., Hladik, C. (2009): Histotechnology: A Self-Instructional Text, 3rd ed., Chicago: ASCP Press
3. Gram, H. C. (1884): Über die isolierte Färbung der Schizomyceten in Schnitt- und Trockenpräparaten, Fortschritte der Medizin 2: 185-9.

SO-P-25, V5-EN1, 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 in vitro diagnostic use only	 Keep in dry place	 Caution - fragile		

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