

# OIL RED O powder dye, C.I. 26125

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

## Sudan Red 5B, BSC certified dye For staining lipids

### INSTRUCTIONS FOR USE

**REF** Catalogue number: ORO-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. Oil Red powder dye is used in various lipids staining methods in microscopy. Frozen samples must be used for staining because solvents would dissolve lipids during processing and deparaffinization.

#### Product description

- **OIL RED** - Biological Stain Commission (BSC) certified powder dye for preparing the solution for staining lipids.

#### Other preparations and reagents used in preparing the dye solution:

- Isopropyl alcohol, such as BioGnost's Histanol IP
- Histopathology staining reagents, such as BioGnost's Hematoxylin M

#### Preparing the dye solution

- Oil Red staining solution:  
Dissolve 0.2 g of Oil Red O dye in 100 ml of 60% isopropyl alcohol solution  
Briefly boil and filter.
- Isopropyl alcohol, 60% solution:  
Mix 60 ml of isopropanol with 40 ml of distilled/demineralized water.

#### Results

Nucleus - blue  
Lipids - red

#### Note

The mentioned formulation is only one of the ways of preparing the dye solution. Oil Red O dye is most commonly used for staining lipids. 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. In order to avoid an erroneous result, a positive and negative check is advised before application.

#### 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 Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines.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.










#### Storing, stability and expiry date

Keep the Oil Red O 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

1. Conn, J. (1977): Biological Stains, 9<sup>th</sup> ed. Baltimore: Williams and Wilkins Co.
2. Carson, F. L., Hladik, C. (2009): Histotechnology: A Self-Instructional Text, 3<sup>rd</sup> ed., Chicago: ASCP Press

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

 BIOGNOST Ltd.  
Medjugorska 59  
10040 Zagreb  
CROATIA  
www.biognost.com

