SIRIUS RED powder dye, C.I. 35780

IVD *In vitro* diagnostic medical device CE

Sirius Red F3B, Acid Red 80
For staining of collagen and amyloid

INSTRUCTIONS FOR USE

REF Product code: SR-P-25 (25 g)

Introduction

Histology, cytology and other related scientific disciplines study the microscopic anatomy of tissues and cells. In order to achieve good visualization of tissue and cellular structures, the samples need to be properly stained. Sirius Red powder dye is an azo dye used principally in staining methods for collagen and amyloid. In histology, Sirius Red staining is used in various diagnostic domains to observe fibrosis levels in a lot of cases of inflammation induced by cancer, vascular or metabolic pathologies. In histology, Sirius Red is used to mark total collagen as well as differentiate between varying collagen types for evaluation of collagen distribution in tissues. In bright-field microscopy, collagen appears as bundles of pink to red fibers which get disturbed in pathological conditions.

Product description

- **SIRIUS RED** - Powder dye for making Picro-Sirius Red solution for staining of collagen

Other materials and reagents used in preparing the dye solution:
- Saturated aqueous solution of picric acid

Preparing the solutions for staining

Sirius Red staining solution:
- Dissolve by mixing 1 g of Sirius Red powder dye in 1000 ml of saturated aqueous solution of picric acid
- After mixing, filter through filter paper

Results

Collagen (bright-field microscopy) – pink to red
Background – pale yellow

Note

The mentioned formulation is only one of the ways of preparing the dye solution. Depending on personal preferences 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 Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines.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 Sirius Red 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, 9th ed., Baltimore: Williams and Wilkins Co.
2. Kiernan, J. A. (2008): Histological and Histochemical Methods, Theory and Practice, 4th ed., Banbury: Scion Publishing Ltd.
3. Carson, F. L., Hladik, C. (2009): Histotechnology: A Self-Instructional Text, 3rd ed., Chicago: ASCP Press.

SR-P-25, V1-EN1, 26 July 2018, VR/IŠP

Refer to the supplied documentation	Storage temperature range	Number of tests in package	REF	Product code	CE	European Conformity	BIOGNOST Ltd. Medjugorska 59 10040 Zagreb CROATIA www.biognost.com	CE
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						