

# SUDAN BLACK B, C.I. 26150

IVD *In vitro* diagnostic medical device

CE

## Sudan Black, Solvent Black 3, Fat Black HB For staining lipids and hydrophobic structures

### INSTRUCTIONS FOR USE

REF Catalogue number: SB-P-5 (5 g) SB-P-10 (10 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. Sudan Black B is a lipophilic diazo dye, very similar to Sudan III that stains lipids, triglycerides and lipoproteins. It is primarily used in Sudan Black B lipid staining method that stains several kinds of lipids of frozen histology sections, including neutral fats, phospholipids, and sterols. It is also used in hematology as substitution for myeloperoxidase staining for demonstration of neutrophil granulocytes in blood smears and bone marrow smears.

#### Product description

- **SUDAN BLACK B** - Powder dye for making dye solution for use in histology and cytochemistry

#### Example of use of Sudan Black B powder dye in Sudan Black B Lipid staining method

#### Other sections, reagents and accessories that are used in the staining method:

- Propylene glycol, propylene glycol, 85%, Nuclear Fast Red (Kernechtrot) reagent (reagents included in BioGnost's Sudan Black B Lipid kit, product code) SBB-100T, SBB-K-100)
- Fixative such as BioGnost's neutral buffered formalin (Formaldehyde NB 4%, Formaldehyde NB 10%)
- High-quality glass slides for use in histopathology and cytology, such as VitroGnost SUPER GRADE or one of more than 30 models of BioGnost's glass slides
- Medium for covering microscope slides and mounting medium for cover slips, such as BioGnost's BioMount Aqua or a glycerol-based medium
- VitroGnost cover glass, dimensions range from 18x18 mm to 24x60 mm
- BioGnost's immersion media, such as Immersion oil, Immersion oil, types A, C, FF, 37, or Immersion oil Tropical Grade

#### Preparation of Sudan Black B dyeing solution

- Add 0.7 g of Sudan Black B powder dye in 100 mL of propylene glycol
- Heat the solution to 100C while mixing
- Filter, then cool the solution
- Filter the solution once again after cooling

The solution is stable for 1 year at 60C.

#### Frozen histology sections staining procedure

Note: Store Sudan Black B solution at 60°C.

1.	Place frozen sections on a clean glass slide	
2.	Fix slides in formalin if fresh	10 min
3.	Note: this step may be skipped	
4.	Wash well it tap water, rinse in distilled (demi) water, drain off excess water	
5.	Treat using propylene glycol	2 exchanges, 5 min each
6.	Stain using Sudan Black, solution (heated at 60°C)	6-10 min, agitate gently
7.	Differentiate using Propylene glycol (85%)	3 min
8.	Rinse in distilled (demi) water	
	Stain using Nuclear Fast Red (Kernechtrot) reagent	3 min
9.	Thoroughly wash the section in tap water	
10.	Rinse in distilled (demi) water	
11.	Cover/mount with water-based (BioMount Aqua) or glycerol-based medium	

Cover with VitroGnost cover glass.

#### Note

Time periods of staining processes are not entirely standardized and they approximately correspond to clinical and laboratory practical experience. Intensity of staining depends on the period of immersion in the dye. Real staining protocol depends on personal requests and priorities.

#### Results

Blue-black - lipids

Red - nuclei

### 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. 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 Sudan Black B powder dye in a tightly closed original package at temperature between 15°C and 25°C. Do not freeze and avoid exposing to direct sunlight. Date of manufacture and expiry date are printed on the product's label.

### References

1. Culling, C.F.A. (1974): Handbook of histopathological and histochemical techniques, 2<sup>nd</sup> ed., Butterworth, London, UK.
2. Sheehan D.C. et Hrapchak, B.B. (1980): Theory and Practice Histotechnology, 2<sup>nd</sup> ed., CV Mosby, St. Louis, (MO), pp 52, p 14-167.

SB-X, V2-EN2, 15 February 2017, AK/VR

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



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