

# SUDAN BLACK B LIPID KIT

IVD *In vitro* diagnostic medical device CE

## Four-reagent kit for staining lipids

### INSTRUCTIONS FOR USE

REF Product code: SBB-100T (for 100 tests) SBB-K-100 (5 x 100 mL)

#### Introduction

BioGnost's Sudan Black B Lipid kit is used for specific staining of lipids in cytochemistry. Sudan Black B is mildly alkaline dye that produces staining after coming into contact with acid group of lipids. Sudan Black stains a variety of lipids, including neutral fats, phospholipids, and sterols.

#### Product description

- **SUDAN BLACK B LIPID KIT** - Kit for staining lipids

The kit contains:	100 tests (SBB-100T)	SBB-K-100 (5x100 mL)
Sudan Black B, solution	2 x 30 mL (SBO-OT-30)	2 x 100 mL (SBO-OT-100)
Propylene glycol	1 x 30 mL (PG-30)	1 x 100 mL (PG-100)
Propylene glycol (85%)	1 x 30 mL (PG85-30)	1 x 100 mL (PG85-100)
Nuclear Fast Red (Kernechtrot) reagent	1 x 30 mL (KR-OT-30)	1 x 100 mL (KR-OT-100)

#### Other slides and reagents that may be used in staining:

- High-quality glass slides for use in histopathology and cytology, such as VitroGnost SUPER GRADE or one of more than 30 models of VitroGnost glass slides
- Fixative such as BioGnost's neutral buffered formalin (Formaldehyde NB 4%, Formaldehyde NB 10%)
- 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

#### Frozen histological sections staining procedure

##### Notes:

- Cut the frozen paraffin block to 8-10  $\mu$ m slices and place them on a VitroGnost glass slide.
- Sudan Black B solution should be heated in thermostat at 60°C before each use. If the solution cannot be heated, stain at room temperature with prolonged incubation (60 minutes). Keep at temperature between 15°C and 25°C until next use after using.
- Apply the reagent so it completely covers the section.

#### a) using kit for 100 tests (SBB-100T)

1.	Place frozen sections on a clean adhesive glass slide	
2.	Fix slides in formalin if fresh	10 min
	Note: this step may be skipped	
3.	Wash well in tap water, rinse in distilled (demi) water, drain off excess water	
4.	Add Propylene glycol ( $\geq 5$ drops)	2 exchanges, 5 min each
5.	Add Sudan Black B, solution heated at 60°C ( $\geq 5$ drops) or	6-10 min, agitate gently
	Add Sudan Black B, solution (heated at room temperature) ( $\geq 5$ drops)	60 min
6.	Add Propylene glycol, 85% ( $\geq 5$ drops)	3 min
7.	Rinse in distilled (demi) water	
8.	Add Nuclear Fast Red (Kernechtrot) reagent ( $> 5$ drops)	3 min
9.	Thoroughly wash the section in tap water	
10.	Rinse in distilled (demi) water	

#### b) using five 100 mL reagents (SBB-K-100)

1.	Place frozen sections on a clean adhesive glass slide	
2.	Fix slides in formalin if fresh	10 min
	Note: this step may be skipped	
3.	Wash well in tap water, rinse in distilled (demi) water, drain off excess water	
4.	Dip into Propylene glycol	2 exchanges, 5 min each
5.	Dip into Sudan Black B, solution (heated at 60°C) or	6-10 min, agitate gently
	Dip into Sudan Black B, solution (heated at room temperature)	60 min
6.	Dip into Propylene glycol, 85%	3 min
7.	Rinse in distilled (demi) water	
8.	Immerse into Nuclear Fast Red (Kernechtrot) reagent	3 min
9.	Thoroughly wash the section in tap water	
10.	Rinse in distilled (demi) water	

#### 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.

## Result

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 Black B Lipid kit in a tightly closed original package at temperature between 15°C and 25°C. Sudan Black B solution should be heated in thermostat at 60°C before each use. 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.

SBB-X, V8-EN6, 5 March 2019, AK/IŠP

 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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