

# AMIDO BLACK 10B, C.I. 20470

IVD In vitro diagnostic medical device



## Naphtol blue black, Acid Black 1 For staining protein, collagen, and hemoglobin

### INSTRUCTIONS FOR USE

REF Catalogue number: AMB-P-10

AMB-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. Amido Black 10B is anionic, hydrophilic diazo dye. At first it was used as a component of Van Gieson trichrome dyes for staining collagen and reticulin, as well as hemoglobin. Today it is also used for quantification of protein in tissue sections. It may be used as nuclear dye in cytology and histology. In biomedicine it is used for detecting protein, i.e. in milk, as well as for staining proteins in gel electrophoresis, but also on polymer membranes.

#### Product description

- **AMIDO BLACK 10B** - powder dye for preparation of solution for staining proteins

#### Other preparations and reagents used in preparing the solution for staining proteins:

- Methanol (CH<sub>3</sub>OH)
- Glacial acetic acid (CH<sub>3</sub>COOH)
- Distilled (demi) water

#### Preparation of solution for staining proteins (100 mL volume)

- Weigh 0.1 g of Amido Black 10B powder dye
- Add 40 mL of methanol and 10 mL of glacial acetic acid. Gently mix
- Set the volume to 100 mL using distilled (demi) water. Gently mix until all the dye is dissolved.

Keep the solution at room temperature for 6 months. Prepare a new solution after 6 months have passed.

#### Preparation of solution for destaining (100 mL volume)

- Mix 20 ml of methanol with 50 ml of distilled (demi) water.
- Add 7.5 ml of glacial acetic acid.
- Set the volume to 100 mL using distilled (demi) water. Gently mix

#### Procedure for staining membrane proteins

1.	After the proteins have been transferred onto the membrane, rinse the membrane using distilled (demi) water	
2.	Stain using solution for staining proteins	5 min
3.	Destain using destaining solution	1 – 3 times
4.	Rinse with distilled (demi) water	

#### Note

The mentioned formulation is only one of the ways of preparing the dye solution. 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 Amido Black 10B powder dye in a tightly sealed original packaging 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.12, pp 218-226.
2. Mundkur, B. et Greenwood, H. (1968): Amido black 10B as a nucleolar stain for lymph nodes in Hodgkin's disease, *Acta cytologica*
3. Plekhanov, A.Y. (1999): Rapid staining of lipids on thin-layer chromatograms with amido black 10B and other water-soluble stains, *Analytical biochemistry* 271, pp 186-187.

AMB-P-X, V2-EN1, 12 January 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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