

# ALCIAN GREEN powder dye

IVD *In vitro* diagnostic medical device



## Ingrain Green 2

For staining cartilage, sulfated and carboxylated mucopolysaccharides

### INSTRUCTIONS FOR USE

REF Catalog number: ALG-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. Alcian Green powder dye is a mixture of Alcian Blue 8GX and Alcian Yellow powder dyes.

It is used in histology for staining cartilage, as well as sulfated and carboxylated mucopolysaccharides. Intensity of staining depends on the content of Alcian Green dye. Several factors may contribute to results of staining, such as pH solution and buffer solutions, buffer substances, fixation and duration of staining procedure.

#### Product description

- **Alcian Green** - Powder dye for use in histology for staining cartilage, sulfated and carboxylated mucopolysaccharides.

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

- Ethyl alcohol, such as BioGnost's Histanol 100 (product code H100-1L)

#### Preparing the solutions for staining

Alcian Green powder dye solution:

- Dissolve 0.1 g of Alcian Green dye in 70 ml of ethanol and 29 ml of distilled water.
- Stir until complete dissolution.
- Add 1 ml of concentrated hydrochloric acid.

#### Results

Cartilage - green

Sulfated and carboxylated mucopolysaccharides - green

#### 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 Used solutions and out of date solutions should be disposed of as special waste in accordance with national guidelines.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 Alcian Green 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.
2. Gurr, E. (1971): Synthetic dyes in biology, medicine and chemistry, London: Academic Press

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

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