

# LIGHT GREEN S.F. powder dye, C.I. 42095

**IVD** *In vitro* diagnostic medical device



## Acid Green 5, Pencil Green SF, BSC certified powder dye For counterstaining according to Papanicolaou and Masson trichrome methods

### INSTRUCTIONS FOR USE

**REF** Catalogue number: LG-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. Light Green SF Yellowish is used for staining in histology, for instance, for staining collagen fibers and especially for Gomori trichrome staining and Masson trichrome staining according to Goldner. Light Green SF Yellowish is also used for polychromatic staining according to Papanicolaou in cytology and as a contrasting dye.

#### Product description

- **LIGHT GREEN S.F.** - Biological Stain Commission (BSC) certified powder dye for preparing the solution for use in histology and cytology.

Other preparations and reagents used in preparing the dye solution:

- Glacial acetic acid (CH<sub>3</sub>COOH)

#### Preparing the solutions for staining

- Dissolve 0.2 g of Light Green SF Yellowish powder dye in 100 ml of distilled/demineralized water.
- Add 0.2 ml of glacial acetic acid and filter it.

#### Result

Nuclei - dark blue  
Cytoplasm - red  
Connective tissue - green  
Erythrocytes - orange

#### Note

The mentioned formulation is only one of the ways of preparing the dye solution. Light Green S.F. is the most commonly used dye in the Papanicolaou and Gomori methods. 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. 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 Used solutions and out of date solutions should be taken care of as a special waste in accordance with national guidelines.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 the Light Green S.F. powder dye in a tightly closed original package at temperature between 15°C and 25°C. Do not keep in cold places, do not freeze and avoid exposing to direct sunlight. Date of manufacture and expiry date are printed on the product's label.

#### References

1. Conn, J. (1977): Biological Stains, 9<sup>th</sup> ed., Baltimore: Williams and Wilkins Co.
2. Kiernan, J. A. (2008): Histological and Histochemical Methods, Theory and Practice, 4<sup>th</sup> ed., Banbury: Scion Publishing Ltd.
3. Carson, F. L., Hladik, C. (2009): Histotechnology: A Self-Instructional Text, 3<sup>rd</sup> ed., Chicago: ASCP Press

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

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