

LEUKOGNOST FIXATIVE ECO

IVD *In vitro* diagnostic medical device



Formalin free fixative for use in cytochemical diagnostics of leukemia

INSTRUCTIONS FOR USE

REF Product code: LFEC-500 (500 mL)

Introduction

For adequate enzymatic activity in samples of blood, bone marrow and other cytology materials, it is necessary to properly fix the samples. LeukoGnost Fixative ECO is formalin free fixative and it is used in cytochemistry for fixing biologic material for later use in different methods, enabling optimal preservation of enzymatic activity relevant to setting an adequate clinical diagnosis.

Product description

- **LEUKOGNOST FIXATIVE ECO** – fixative based on acetone and citrate buffer, suitable for fixing blood and bone marrow, recommended for cytochemical methods

Other sections and reagents that may be used with LeukoGnost Fixative ECO:

- BioGnost's LeukoGnost kits (for cytochemistry) used for detecting and classifying leukemia; **LeukoGnost MPO** (kit for detecting myeloperoxidase activities in leukocytes), **LeukoGnost ALP** (kit for detecting alkaline phosphatase in leukocytes), **LeukoGnost ACP** (kit for detecting acid phosphatase activity in leukocytes), **LeukoGnost NSE** (kit for detecting non-specific esterase activity in leukocytes), **LeukoGnost SPE** (kit for detecting specific esterase activity in leukocytes), **LeukoGnost PAS** (kit for detection of the periodic acid-Schiff reaction in leukocytes) and **LeukoGnost SPENSE** (kit for simultaneous detection of specific and non-specific esterase activity in leukocytes)
- Sections covering medium, such as BioMount Aqua
- High-quality glass slides for use in histopathology and cytology, such as VitroGnost SUPER GRADE, VitroGnost COLOR or one of more than 30 models of BioGnost's VitroGnost glass slides
- VitroGnost cover glass, dimensions range from 18x18mm to 24x60mm
- BioGnost's immersion media, such as Immersion oil, Immersion oil, types A, C, FF, 37, or Immersion oil Tropical Grade

Preparing the sample for staining

Fresh full blood samples, bone marrow smears or precipitate of centrifuged sample are used as basic fixing materials. EDTA as anticoagulant is not recommended due to its interaction with enzymes.

Fixing procedure

1.	Fix the dry blood or bone marrow smears in LeukoGnost Fixative ECO	1-3 minutes
2.	Rinse with distilled water	10 seconds
3.	Dry in air or keep processing the section	

Fixing guidelines

Fixative must be manufactured in accordance with the *in vitro* diagnostic devices norms and must bear the CE marking of conformity, and the processes of fixing, processing and staining must be carried out by a qualified person only. Always wear protective gloves while handling the fixative and fixed tissue samples. The rooms in which LeukoGnost Fixative ECO is being used should be well aerated by using an exhaust fan or a digester in order to remove toxic evaporation. Additional security information can be found in the Material Safety Data Sheet of this product.

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 use. In order to avoid mistakes, the covering or mounting and staining procedure as well as 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 control samples are advised before application.

Safety at work and environmental protection

Handle the product in accordance with safety at work and environmental protection guidelines. Used medical products and out of date products 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.

Storing, stability and expiry date

Keep LeukoGnost Fixative ECO in a tightly sealed original packaging at temperature of +15°C to +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. Boon M.E., Drijver J.S. (1986): Routine cytological staining techniques: theoretical background and practice, Macmillan Education LTD
2. Cook, D. J. (2006): *Cellular Pathology*, 2nd ed., Banbury: Scion Publishing Ltd.
3. Kieman, J.A. (2008): *Histological and Histochemical Methods, Theory and Practice*, 4th ed., Scion Publishing Ltd, Banbury.

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

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