BIOMOUNT MEDIA

IVD *In vitro* diagnostic medical device CE

BioMount media for covering microscope sections and mounting covering glasses

BioMount, BioMount High, BioMount M, BioMount New, BioMount New Low, BioMount DPX, BioMount DPX High, BioMount DPX Low, BioMount DPX New, BioMount C

INSTRUCTIONS FOR USE

Introduction

BioMount synthetic covering/mounting media provide expected tissue transparency and sample preservation during the period of several years. BioGnost media's refractive indices are similar to those of glass slide and cover glass. That does not cause the unwanted refraction of light and it provides a clear and detailed image of the section. BioMount, BioMount High, BioMount DPX, BioMount DPX High, BioMount DPX Low, BioMount DPX New and BioMount C media are xylene-based. That makes them compatible with BioGnost's BioClear xylene, clearing/deparaffinizing medium. BioMount M is toluene-based media for covering and mounting samples, while BioMount New and BioMount New Low are universal media based on isoparaffin xylene substitute and are compatible with BioGnost's BioClear New medium for clearing/deparaffinizing, but with BioGnost's BioClear xylene. BioMount New and BioMount New Low are not harmful for handling, while BioMount C makes an excellent substitution for natural covering medium, such as Canada Balsam. Due to their low viscosity, BioMount, BioMount DPX New, BioMount New Low and BioMount M are ideal for use in automated stainers. BioGnost has a wide range of BioMount covering media in its sales range based on the variety of their solvents and viscosity. That makes them ideal for fulfilling needs and priorities of experts during preparing histological and cytological sections. A small amount of BioMount covering/mounting medium should be applied to the test sample in order to create a fixed permanent preparation (along with the solvent evaporation).

Product description

- **BIOMOUNT (BMT-100, BMT-250, BMT-500, BMT-5L)** – Medium for covering/mounting microscopic sections of low viscosity (450-650 cSt) and refractive index n_D=1.4920-1.4930. Contains xylene and methyl methacrylate. Suitable for using in automated stainers
- **BIOMOUNT HIGH (BMTH-100, BMTH-250, BMTH-500)** – Medium for covering/mounting microscopic sections of very high viscosity (5000-5500 cSt) and refractive index n_D=1.4900-1.4920. Contains xylene and methyl methacrylate
- **BIOMOUNT M (BMM-100, BMM-250, BMM-500)** – Medium for covering/mounting microscopic sections of very low viscosity (140-160 cSt) and refractive index n_D=1.4900-1.4920. Contains toluene and methyl methacrylate. Suitable for using in automated stainers.
- **BIOMOUNT NEW (BMN-100, BMN-250, BMN-500)** – Medium for covering/mounting microscopic sections of medium viscosity (950-1050 cSt) and refractive index n_D=1.4385-1.4395. Contains xylene substitute and methyl methacrylate. The medium is not harmful for handling. BioMount New is an universal covering medium for microscope sections deparaffinized using medium based on xylene substitute (BioClear New), as well as xylene-based medium (BioClear).
- **BIOMOUNT NEW LOW (BMNL-100, BMNL-250, BMNL-500)** – Medium for covering/mounting microscopic sections of very low viscosity (130-160 cSt) and refractive index n_D=1.4345-1.4365. Contains xylene substitute and methyl methacrylate. The medium is not harmful for handling. BioMount New Low is an universal covering medium for microscope sections deparaffinized using medium based on xylene substitute (BioClear New), as well as xylene-based medium (BioClear). Suitable for using in automated stainers
- **BIOMOUNT DPX (BM-100, BM-250, BM-500)** – Medium for covering/mounting microscopic sections of medium viscosity (850-950 cSt) and refractive index n_D=1.5210-1.5230. Contains xylene, dibutylphthalate and polystyrene.
- **BIOMOUNT DPX HIGH (BMH-100, BMH-250, BMH-500)** – Medium for covering/mounting microscopic sections of high viscosity (1900-2100 cSt) and refractive index n_D=1.5235-1.5255. Contains xylene, dibutyl phthalate and polystyrene
- **BIOMOUNT DPX LOW (BML-100, BML-250, BML-500)** – Medium for covering/mounting microscopic sections of very low viscosity (140-160 cSt) and refractive index n_D=1.5115-1.5135. Contains xylene, dibutylphthalate and polystyrene. Suitable for using in automated stainers
- **BIOMOUNT DPX NEW (BMLE-100, BMLE-250, BMLE-500)** – Medium for covering/mounting microscopic sections of very low viscosity (200-300 cSt) and refractive index n_D=1.5150-1.5180. Contains xylene, environment friendly plasticizer, and polystyrene. Suitable for using in automated stainers
- **BIOMOUNT C (BMC-100, BMC-250, BMC-500)** – Medium for covering/mounting microscopic sections of very high viscosity (5000-5500 cSt) and refractive index n_D=1.4910-1.4925. Contains xylene, acrylate and herbal ingredients from the conifer tree (Pinaceae). The medium is an excellent substitution for natural covering medium, such as Canada Balsam

Other media that can be used with BioMount media:

- Clearing/deparaffinizing medium, such as BioGnost's BioClear xylene and BioClear New xylene substitute
- Glass slides for usage in histopathology and cytology, such as VitroGnost SUPER GRADE or VitroGnost COLOR, or adhesive glass slides, such as VitroGnost PLUS ULTRA, VitroGnost SIL or VitroGnost PLL
- VitroGnost cover glass, dimensions range from 18x18mm to 24x60mm

Product use

The sample must be completely dehydrated before covering/mounting. The test sample should be covered by using a glass stick. One drop of BioMount medium is applied on a horizontal glass slide. The volume applied should be ~0.05 ml. After evenly applying the medium on the sample, a clean glass slide must be positioned without formation of air bubbles. Leave the glass slide in a horizontal position in a thermostat for 30-40 min until the medium dries. When the sample has dried, it is ready for a microscopic analysis.

If the solvent in BioMount medium evaporates and it becomes too viscous for routine work, an expert can dilute it to needed viscosity by using an appropriate BioGnost's BioClear xylene or BioClear New isoparaffin xylene substitute.

Note

For satisfying results, i.e. optimal optical properties and transparency of preparations it is very important that the medium used for covering/mounting contains solvent used as the basis for the previously used clearing medium. BioMount, BioMount High, BioMount M, BioMount DPX, BioMount DPX High, BioMount DPX Low, BioMount DPX New, and BioMount C are used if the previously used medium is BioClear xylene. BioMount New and BioMount New Low are used if the previously used medium is BioClear New isoparaffin xylene substitute, as well as BioClear xylene.

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

BioMount microscopic sections covering/mounting media must be stored at temperature between +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. Carson, F. L., Hladik, C. (2009): *Histotechnology: A Self-Instructional Text*, 3rd ed., Chicago: ASCP Press
2. Cook, D. J. (2006): *Cellular Pathology*, 2nd ed., Banbury: Scion Publishing Ltd.
3. Ono, M., Murakami, T., Kudo, A., Isshiki, M., Sawada, H., Segawa, A. (2001): *Quantitative Comparison of Anti-Fading Mounting Media for Confocal Laser Scanning Microscopy*, 4th ed., Bloxham: Scion Publishing Ltd.

BM-X, BMX-X, V13-EN11, 02 July 2019, AK/IŠP

	Refer to the supplied documentation	°C	Storage temperature range	Σ	Number of tests in package	REF	Product code	CE	European Conformity		BIOGNOST Ltd. Medjugorska 59 10040 Zagreb CROATIA www.biognost.com
	Refer to supplied instructions		Keep away from heat and sunlight		Valid until	LOT	Lot number		Manufacturer		
IVD	For *in vitro* diagnostic use only		Keep in dry place		Caution - fragile						