

# DEMOLD SPRAY

# DEMOLD SOLUTION

IVD In vitro diagnostic medical device



## Solution in a spray bottle for easy removal of paraffin tissue blocks

**Synonym: Mold release spray**

### INSTRUCTIONS FOR USE

REF	Product code: DEMOLD SPRAY	DS-100 (100 ml)	
	DEMOLD SOLUTION	DS-500 (500 ml)	DS-1L (1000 ml)

#### Introduction

Histology, cytology and other related scientific disciplines study the microscopic anatomy of tissues and cells. Quality sample processing should be carried out in order to achieve good tissue and cellular structures visualization. Histological and cytological tissue sample processing consists of a few steps, and one of them includes infiltration and embedding the sample into the paraffin and making paraffin tissue blocks. This procedure is being conducted in the following manner: the properly oriented sample (depending on the type of tissue) is positioned on the central part of the mold, specifically used in histology. After pouring melted paraffin (embedding the sample), it is necessary to cool it down as soon as possible in order to avoid creating paraffin crystals that influence the sample sectioning quality. The cooled and hardened paraffin block must be removed from the mold, which can be a complicated procedure, and can also cause the block to crack. Using BioGnost's DeMold Spray by applying it to the mold before inserting the sample and pouring the paraffin, the tissue block is removed quickly and simply and can be prepared for microtome sectioning and for further processing and analysis.

#### Product description

- **DEMOLD SPRAY** – Solution containing optimal ratio of alcohol, ionic and anionic surfactants
- **DEMOLD SOLUTION** – Solution for refilling DeMold Spray bottle with atomizer

#### Other sections and reagents that may be used in staining:

- Fixatives such as BioGnost's neutral buffered formaldehyde solutions: Formaldehyde NB 4%, Formaldehyde NB 10%
- Dehydrating/rehydrating agent, such as BioGnost's alcohol solutions: Histanol 70, Histanol 80, Histanol 95 and Histanol 100
- Clearing agents, such as BioClear xylene or a substitute, for instance BioClear New agent on the aliphatic hydrocarbons basis
- Infiltration and fitting agent, such as BioGnost's granulated paraffin BioWax Plus 56/58, BioWax 56/68, BioWax Blue, BioWax Micro
- 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

#### Preparing the histological sections for staining

- Fixate the sample (Formaldehyde NB 4%, Formaldehyde NB 10%), rinse with water and dehydrate through series of ascending alcohol solutions (Histanol 70, Histanol 80, Histanol 95 and Histanol 100)
- Clear the sample with an intermedium; in xylene (BioClear) or in a xylene substitute (BioClear New)
- Infiltrate and fit the sample in paraffin (BioWax Plus 56/58, BioWax 56/58, BioWax Blue, BioWax Micro)
- Cut the paraffin block to 4-6  $\mu\text{m}$  slices and place them on a VitroGnost glass slide

#### Note

Example of histological sections staining is described in BioGnost's Histology staining instructions.

#### Usability

100 ml of DeMold Spray is sufficient for 250 applications.

#### 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.

#### 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 DeMold Spray and Solution in a tightly closed original package at temperature of +15°C to +25°C. 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. (2007) *Histotechnology; A self instructional text*. Dallas: American Society for Clinical Pathology.
2. Critz, H.C. (2007) U.S. Patent No. 7,234,308
3. Kiernan J. A. (2008) *Histological and histochemical methods*, 4<sup>th</sup> ed., Bloxham: Scion Publishing Ltd.

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	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				



BIOGNOST Ltd.  
 Medjugorska 59  
 10040 Zagreb  
 CROATIA  
[www.biognost.com](http://www.biognost.com)

