



PRODUCT  
CATALOG

Microscopy  
Laboratory diagnostics





# Complete dedication to science

Fulfilling our ambition - first to detect, develop, and offer solutions

Our everyday business is shaped by clear missions, visions and goals. That includes caring about your needs, as well as a high level of both ethically and socially responsible business conducts, which makes BioGnost a valuable and desirable business partner.

Our image and integrity, which are the key features of every business, are based on knowledge, skills, experience and our employees' dedicated effort. Stimulation of regular learning and dedication to science in all scopes of business and enables creative and innovative solutions, as well as further expansion of our sales ranges.

Our mission is to create quality and safe products and provide satisfactory services, as well as introduce new or expand the existing production lines and sales programs in accordance with dynamics and demands of the market. We currently offer more than 2000 highly standardized and high-quality products.

One of BioGnost's distinctive qualities is the complete dedication to science that is manifested through innovation. By continuously perfecting our current knowledge base we are striving to achieve our ambition – to be the first to invent and to market!

We take pride in our employees and their knowledge, professional experience and skills, as well as their dedicated work that creates a positive and stimulating work environment. The quality of our products and services is intertwined with the quality of our employees' interrelationships. With that in mind, we continue to strengthen the team spirit.

Contact us with confidence because our sales ranges, in accordance with the company policy, represent only the highest quality service as well as our manufacture verified by the quality certificates.

Ivan Marchiotti  
Director

# Manufacture and quality control

Constant enhancement of quality systems ISO 9001, ISO 13485, and ISO 14001

BioGnost's product and sales range is a direct result of business politics and the company's development. The range consists of wide selection of own products that are manufactured and distributed by a team of academically educated experts that aspire to continuous enhancement and expansion of sales ranges by expanding professionally, exploring the needs of a market and consulting with customers.

BioGnost's business cooperations are based on successful export of products owing to its employees' expertise.

Our sales representatives communicate with all the business partners with the same level of professional approach and in that way create mutually useful connection between the business partner and the company itself.

Management of quality, sales and product distribution is in accordance with ISO 9001 standard. In that way we create a system of communication with our clients that enables us providing information about the products, queries, contracts, orders, feedback information and remarks.

In order to continue constant enhancement of the quality control system, we introduced ISO 13485 standard that presents a number of requests necessary for maintaining production quality of medical devices. All of our products are in accordance with Directive 98/79/EC and bear the CE mark.

By implementing the ISO 14001 environmental management system we were able to develop and apply business politics and goals that take into consideration various legal requests and information regarding environmental aspects.



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# Microscopy

Microscopy solutions include products necessary for complete sample processing, starting with tissue and finishing with stained section ready for diagnose. This BioGnost's sales range includes various fixatives, numerous dehydration and rehydration agents, BioMount covering and mounting media; xylene and xylene substitute-based media that enable clear section image and paraffins for embedding tissues. In order to provide detailed analysis, the range also includes various immersion oils of various properties. Every product bears the CE mark, a certificate that confirms that the product is in accordance with the EU standards.

For more info ask our sales team or visit our [web page](#).

# Fixatives

## BIOFIX

Alcohol-based reagent used for fixing cryostat samples

Solution of alcohol, formaldehyde and acetic acid for fixing cryostat samples. BioFix penetrates the tissues fast and presents a great choice for preservation and visualization of antigens.

	packaging	product code
• BioFix	500 mL	BF-500
• BioFix	1000 mL	BF-1L

## BIOFIX HD

Fixative that enables fast fixation and better visualization of lymph nodes

The results provide clearer details of nucleus and minimize formalin pigment

Fixative manufactured according to Hartmann/Davidson protocol. It contains acetic acid, alcohol, and formalin, and it is used for fixing and preserving tumor tissues, eyes, bone marrow, breast tissue, testicles and gynecological samples. When processing colon and breast tissue samples, the fixative enables better visualization of lymph nodes that turn white during exposition to BioFix HD. It also enables visualization of fine nucleus details.

	packaging	product code
• BioFix HD	500 mL	BFHD-500
• BioFix HD	1000 mL	BFHD-1L

## BIOFORM S

Buffered fixative solution of formaldehyde in methanol

Synonym: Schäffer's fixative

Rapid and effective fixative containing optimum ratio of formaldehyde and methanol. Along with decalcifying solutions, it is used for fixation of bone samples and samples of lung epithelium, as well as for optimal visualization of mucin granules in alveolar cells.

	packaging	product code
• BioForm S	1000 mL	BIOS-OT-1L
• BioForm S	5000 mL	BIOS-OT-5L

## BOUIN'S SOLUTION

Aqueous solution of formaldehyde, trinitrophenol, and acetic acid for tissue fixation

Synonym: Bouin's fixative

Excellent for preserving soft and sensitive tissue structures, such as lymph nodes, prostate biopsies, kidneys and endocrine glands. Owing to intensive yellow color, it enables easier visualization of small tissue structures, and it is extremely important when used as mordant in various trichromatic methods. Especially useful fixative for observing chromosomes in tissues during mitosis or meiosis.

	packaging	product code
• Bouin's solution	100 mL	BOU-OT-100
• Bouin's solution	1000 mL	BOU-OT-1L
• Bouin's solution	10000 mL	BOU-OT-10L

## CITOFIX

Solution for fixation and transport of cytological samples

CitoFix solution for immediate fixation and easy preparation of cytological samples for further processing. Available in transport containers. For liquid cytology (LBC, Liquid-based cytology).

	packaging	product code
• CitoFix	1000 mL	CX-1L

## CITOSPRAY

Solution for fixation of cytological smears in a spray bottle

Contains optimal concentration of alcohol and polyglycols. CitoSpray provides high quality fixation of the sample. For fixation of cytology samples, such as Pap smears.

	packaging	product code
• CitoSpray	100 mL	CS-100

## CITOSPRAY SOLUTION

Solution for fixation of cytological smears in a bottle, for refill of CitoSpray spray bottle

Containing optimal concentration of alcohol and polyglycols, CitoSpray provides high quality fixation of the sample.

	packaging	product code
• CitoSpray solution	1000 mL	CSO-1L

## DEHEMATIN

Modified Kardasewitsch solution for depigmentation of acid hematin

Reagent for removal of formalin pigment (hematin) from tissues fixed in unbuffered solution of formaldehyde.

	packaging	product code
• DeHematin	1000 mL	KO-OT-1L



## NB FORMALDEHYDE CONCENTRATED 5X

Concentrated neutral buffered formaldehyde for preparation of 4% buffered formaldehyde solution (pH 7.0)

Fast and economical way of preparing buffered solution of 4% formaldehyde (10% formalin) by mixing 1 part of concentrated formaldehyde and 4 parts of distilled water (1+4 dilution). One liter of NB Formaldehyde concentrated 5X is sufficient for preparing 5 liters of 4% neutral buffered formaldehyde. The prepared solution is stable at low temperatures, it causes no precipitates, and it saves space and expenses.

	packaging	product code
• NB Formaldehyde concentrated 5X	1000 mL	FK5X-1L
• NB Formaldehyde concentrated 5X	5000 mL	FK5X-5L
• NB Formaldehyde concentrated 5X	10000 mL	FK5X-10L

## 4% NB FORMALDEHYDE

4% neutral buffered and stabilized formaldehyde solution, pH 7.0

Synonym: 10% neutral buffered formalin

Most widely used fixative for tissue processing in histological laboratories. Stable at low temperatures. Suitable for fixation of biopsy materials, small tissue samples and long-term storage of fixed samples. Volumes lesser than 1000 mL are available in polypropylene containers with a screw cap.

	packaging	product code
• 4% NB Formaldehyde	1000 mL	FNB4-1L
• 4% NB Formaldehyde	2500 mL	FNB4-2.5L
• 4% NB Formaldehyde	3000 mL	FNB4-3L
• 4% NB Formaldehyde	5000 mL	FNB4-5L
• 4% NB Formaldehyde	10000 mL	FNB4-10L
• 4% NB Formaldehyde	20000 mL	FNB4-20L

## 4% NB FORMALDEHYDE IN TRANSPORT CONTAINERS AND TANKS

4% neutral buffered and stabilized formaldehyde solution, pH 7.0 in transport containers and tanks

Synonym: 10% neutral buffered formalin in transport containers and tanks

Fixative solution in a polypropylene container with a screw cap, for fixation and transport of samples. Stable at low temperatures. Suitable for fixation of biopsy samples, small tissue samples and long-term storage of fixed samples.

	container volume	fixative volume*	packaging	product code
• 4% NB formaldehyde in transport containers	20 mL	10 mL	100 pcs	F4-20-10
• 4% NB formaldehyde in transport containers	40 mL	20 mL	100 pcs	F4-40-20
• 4% NB formaldehyde in transport containers	60 mL	30 mL	50 pcs	F4-60-30
• 4% NB formaldehyde in transport containers	90 mL	45 mL	20 pcs	F4-90-45
• 4% NB formaldehyde in transport containers	120 mL	60 mL	20 pcs	F4-120-60
• 4% NB formaldehyde in transport containers	250 mL	125 mL	10 pcs	F4-250-125
• 4% NB formaldehyde in transport tanks	500 mL	250 mL	10 pcs	F4-500-250
• 4% NB formaldehyde in transport tanks	1000 mL	500 mL	10 pcs	F4-1000-500
• 4% NB formaldehyde in transport tanks	2000 mL	1000 mL	4 pcs	F4-2000-1000
• 4% NB formaldehyde in transport tanks	3000 mL	1500 mL	4 pcs	F4-3000-1500
• 4% NB formaldehyde in transport tanks	5000 mL	2500 mL	2 pcs	F4-5000-2500
• 4% NB formaldehyde in transport tanks	10000 mL	5000 mL	2 pcs	F4-10000-5000

\* fixative volume can be modified according to the needs of the customer



# Fixatives

## FORMALDEHYDE 37% FOR USE IN HISTOLOGY

37% formaldehyde solution stable at low temperatures

Synonym: Concentrated formalin

For preparation of 2%, 4%, 8% or 10% formaldehyde solution by simple dilution with demineralized / distilled water in 1:20, 1:10, 1:5 or 1:4 ratio.

	packaging	product code
• Formaldehyde 37% for use in histology	1000 mL	F37H-1L
• Formaldehyde 37% for use in histology	5000 mL	F37H-5L
• Formaldehyde 37% for use in histology	10000 mL	F37H-10L
• Formaldehyde 37% for use in histology	20000 mL	F37H-20L

## 10% NB FORMALDEHYDE

10% neutral buffered and stabilized formaldehyde solution, pH 7.0

Synonym: 25% neutral buffered formalin

Primary tissue fixative, stable at low temperatures. Samples may be fixed for a shorter time period and with lesser volume compared to tissue fixed in a 4% formaldehyde solution. Suitable for use in all automatic tissue processors. Volumes lesser than 1000 mL are available in polypropylene containers with a screw cap.

	packaging	product code
• 10% NB Formaldehyde	1000 mL	FNB10-1L
• 10% NB Formaldehyde	2500 mL	FNB10-2.5L
• 10% NB Formaldehyde	5000 mL	FNB10-5L
• 10% NB Formaldehyde	10000 mL	FNB10-10L
• 10% NB Formaldehyde	20000 mL	FNB10-20L

## 10% NB FORMALDEHYDE IN TRANSPORT CONTAINERS AND TANKS

10% neutral buffered and stabilized formaldehyde solution, pH 7.0 in transport containers and tanks

Synonym: 25% neutral buffered formalin in transport containers and tanks

Fixative solution in a polypropylene container with a screw cap, for fixation and transport of samples. Stable at low temperatures. Suitable for fixation of biopsy samples, small tissue samples and long-term storage of fixed samples.

	container volume	fixative volume*	packaging	product code
• 10% NB formaldehyde in transport containers	20 mL	10 mL	100 pcs	F10-20-10
• 10% NB formaldehyde in transport containers	40 mL	20 mL	100 pcs	F10-40-20
• 10% NB formaldehyde in transport containers	60 mL	30 mL	50 pcs	F10-60-30
• 10% NB formaldehyde in transport containers	90 mL	45 mL	20 pcs	F10-90-45
• 10% NB formaldehyde in transport containers	120 mL	60 mL	20 pcs	F10-120-60
• 10% NB formaldehyde in transport containers	250 mL	125 mL	10 pcs	F10-250-125
• 10% NB formaldehyde in transport tanks	500 mL	250 mL	10 pcs	F10-500-250
• 10% NB formaldehyde in transport tanks	1000 mL	500 mL	10 pcs	F10-1000-500
• 10% NB formaldehyde in transport tanks	2000 mL	1000 mL	4 pcs	F10-2000-1000
• 10% NB formaldehyde in transport tanks	3000 mL	1500 mL	4 pcs	F10-3000-1500
• 10% NB formaldehyde in transport tanks	5000 mL	2500 mL	2 pcs	F10-5000-2500
• 10% NB formaldehyde in transport tanks	10000 mL	5000 mL	2 pcs	F10-10000-5000

\* fixative volume can be modified according to the needs of the customer



### OSTEOFAST 1

Light blue fixative and decalcifying solution for bone and hard tissue in histology

For fixation and rapid removal of calcium ions, the tissue becomes softened and ready for further processing. Based on formaldehyde and hydrochloric acid.

	packaging	product code
• OsteoFast 1	1000 mL	OF1-OT-1L
• OsteoFast 1	2500 mL	OF1-OT-2.5L

### OSTEOFAST 2

Light yellow decalcifying solution for bone and hard tissue in histology

For milder removal of calcium ions, the tissue becomes softened and ready for further processing. Based on formaldehyde and formic acid.

	packaging	product code
• OsteoFast 2	1000 mL	OF2-OT-1L
• OsteoFast 2	2500 mL	OF2-OT-2.5L

### OSTEOSENS

Decalcifying solution for sensitive calcified tissues in histology

For mild removal of calcium ions in sensitive tissue, which becomes softened and ready for further processing. Contains EDTA.

	packaging	product code
• OsteoSens	1000 mL	OS-OT-1L
• OsteoSens	2500 mL	OS-OT-2.5L

# Dehydrating and rehydrating agents

## HISTANOL

Alcohol-based media for use in histology and cytology

Alcoholic solutions and absolute alcohol are ideal for histo-cytological, storage and transport of samples. They are often used during processing, dehydrating/rehydrating of histological and cytological sections. Histanols are efficient and act fast, they are miscible with water and certain organic solvents such as methanol, acetic acid, isopropanol, and glycerol in various ratios.

	packaging	product code
<b>Histanol 50</b>		
<u>Medium based on 50% ethyl alcohol</u>		
• Histanol 50	1000 mL	H50-1L
• Histanol 50	2500 mL	H50-2.5L
• Histanol 50	5000 mL	H50-5L
• Histanol 50	10000 mL	H50-10L
<b>Histanol 70</b>		
<u>Medium based on 70% ethyl alcohol</u>		
• Histanol 70	1000 mL	H70-1L
• Histanol 70	2500 mL	H70-2.5L
• Histanol 70	5000 mL	H70-5L
• Histanol 70	10000 mL	H70-10L
<b>Histanol 80</b>		
<u>Medium based on 80% ethyl alcohol</u>		
• Histanol 80	1000 mL	H80-1L
• Histanol 80	2500 mL	H80-2.5L
• Histanol 80	5000 mL	H80-5L
• Histanol 80	10000 mL	H80-10L
<b>Histanol 95</b>		
<u>Medium based on 95% ethyl alcohol</u>		
• Histanol 95	1000 mL	H95-1L
• Histanol 95	2500 mL	H95-2.5L
• Histanol 95	5000 mL	H95-5L
• Histanol 95	10000 mL	H95-10L
<b>Histanol 96</b>		
<u>Medium based on 96% ethyl alcohol</u>		
• Histanol 96	1000 mL	H96-1L
• Histanol 96	2500 mL	H96-2.5L
• Histanol 96	5000 mL	H96-5L
• Histanol 96	10000 mL	H96-10L
<b>Histanol 100</b>		
<u>Medium based on 100% ethyl alcohol</u>		
• Histanol 100	1000 mL	H100-1L
• Histanol 100	2500 mL	H100-2.5L
• Histanol 100	5000 mL	H100-5L
• Histanol 100	10000 mL	H100-10L





### HISTANOL EP

Alcohol-based media (ethanol and 2-propanol mixture) for use in histology and cytology

Alcoholic solutions made by mixing ethyl alcohol and 2-propanol. They are used during processing, dehydration/rehydration of histology and cytology sections. May be used as a substitution for Histanol 96 and Histanol 100.

	packaging	product code
<u>Histanol EP 96</u>		
<u>Medium based on 96% alcohol</u>		
▪ Histanol EP 96	1000 mL	HEP96-1L
▪ Histanol EP 96	5000 mL	HEP96-5L
▪ Histanol EP 96	10000 mL	HEP96-10L
<u>Histanol EP 100</u>		
<u>Medium based on 100% alcohol</u>		
▪ Histanol EP 100	1000 mL	HEP100-1L
▪ Histanol EP 100	5000 mL	HEP100-5L
▪ Histanol EP 100	10000 mL	HEP100-10L

### HISTANOL G

Glycerol for use in microscopy

Colorless, viscous, odorless liquid, with very broad use in preparing histological and cytological reagents and solutions.

	packaging	product code
▪ Histanol G	1000 mL	HG-1L
▪ Histanol G	5000 mL	HG-5L
▪ Histanol G	10000 mL	HG-10L

### HISTANOL IP

Isopropyl-based medium for use in microscopy

Histanol IP does not cause shrinking or hardening of tissues samples during histological processing.

Frequently used substitute for ethanol.

	packaging	product code
▪ Histanol IP	1000 mL	HIP-1L
▪ Histanol IP	5000 mL	HIP-5L
▪ Histanol IP	10000 mL	HIP-10L

### HISTANOL M

Methyl alcohol-based medium for use in histology and cytology

Fixation and dehydration medium used separately or combined with other alcohols or acids, depending on histological or cytological method.

	packaging	product code
▪ Histanol M	1000 mL	HM-1L
▪ Histanol M	5000 mL	HM-5L
▪ Histanol M	10000 mL	HM-10L

# Clearing and deparaffinization agents



## BIOCLEAR

Xylene-based medium for use in histology and cytology

BioClear is aromatic solvent with characteristic odor and it is easily miscible with absolute alcohol, paraffin, and synthetic mounting and embedding media. It is used in next steps during samples processing: as an intermedium between dehydrated samples and samples infiltrated with paraffin; during deparaffinizing non-stained histological samples and during clearing of stained histological/cytological samples. Samples treated with BioClear should be covered/mounted with xylene-based media, such as BioMount, BioMount High, BioMount C, BioMount DPX, BioMount DPX High, BioMount DPX Low, BioMount DPX Low Eco, and Canada Balsam, but also universal media, such as BioMount New and BioMount New Low.

	packaging	product code
• BioClear	1000 mL	BC-1L
• BioClear	2500 mL	BC-2.5L
• BioClear	5000 mL	BC-5L
• BioClear	10000 mL	BC-10L

## BIOCLEAR NEW

Aliphatic hydrocarbon-based medium

Excellent replacement for xylene. It can be used as an intermedium between dehydrated histological samples and samples infiltrated with paraffin; during deparaffinizing non-stained histological samples and during clearing of stained histological/cytological samples. Mild clearing reagent that will not harden tissue samples. It is characterized by rapid tissue infiltration and is less hazardous for health in comparison with xylene. Samples processed with BioClear New should be covered/mounted with an aliphatic hydrocarbon based medium, such as BioMount New universal medium and BioMount New Low.

	packaging	product code
• BioClear New	1000 mL	BCN-1L
• BioClear New	2500 mL	BCN-2.5L
• BioClear New	5000 mL	BCN-5 L
• BioClear New	10000 mL	BCN-10L

# BioMount

## TEN DIFFERENT MEDIA FOR PERMANENT COVERING OF SAMPLES AND MOUNTING MICROSCOPY COVER SLIPS

Media for permanent covering and mounting of cover slips are used daily in medical laboratories in order to form high quality diagnostic preparation. BioMount synthetic covering and mounting media keep the tissue transparent and preserve it for a prolonged period of time.

BioGnost's media have refractive index similar to that of refractive index of light, i.e., that of cover slips and covering glass; that enables a clear and detailed view of the preparation after rays of light pass through a homogenous system. A small amount of BioMount mounting/covering media should be applied to the sample in order for a firm preparation to form (with the solvent evaporation). BioGnost offers a wide range of BioMount covering media based on diversity of used polymers, their solvents and viscosity values; that makes it possible to fulfill all the priorities and necessities of an expert during production of histological and cytological preparations. BioMount media of lower viscosity values can be used in automated cover slip machines.

### BioGnost's synthetic BioMount media properties

BIOMOUNT MEDIUM	SOLVENT	POLYMER	VISCOSITY @ 20°C (cSt)	REFRACTIVE INDEX @ 20°C (n <sub>D</sub> )	USAGE IN AUTOMATED COVER SLIP MACHINES
BIOMOUNT	xylene (BioClear)	M	450-550	1.4920-1.4930	+
BIOMOUNT HIGH	xylene (BioClear)	M	5000-5500	1.4900-1.4920	-
BIOMOUNT M	toluene	M	140-160	1.4900-1.4920	+
BIOMOUNT NEW	isoparaffin (BioClear New)	M	950-1050	1.4385-1.4395	-
BIOMOUNT NEW LOW	isoparaffin (BioClear New)	M	140-160	1.4345-1.4365	+
BIOMOUNT C	xylene (BioClear)	M	5000-5500	1.4910-1.4925	-
BIOMOUNT DPX	xylene (BioClear)	S	850-950	1.5210-1.5230	-
BIOMOUNT DPX HIGH	xylene (BioClear)	S	1900-2100	1.5235-1.5255	-
BIOMOUNT DPX LOW	xylene (BioClear)	S	140-160	1.5115-1.5135	+
BIOMOUNT DPX LOW ECO*	xylene (BioClear)	S	140-160	1.5130-1.5150	+

Legend: M - methacrylate, S - styrene (polystyrene)

\* does not contain harmful dibutyl phthalate plasticizer

\*\* contact us to find out how to lower levels of viscosity of a medium



# Covering/mounting media

## Synthetic media for permanent covering

### BIOMOUNT

Medium for permanent covering of microscope slides and mounting medium for cover slips

Low viscosity medium (450-550 cSt) with refractive index similar to that of glass ( $n_D=1.4920-1.4930$ ).

Contains xylene and methyl methacrylate. BioMount is suitable for histological and cytological samples cleared using a xylene-based medium such as BioClear clearing/deparaffinization medium.

	packaging	product code
• BioMount	100 mL	BMT-100
• BioMount	250 mL	BMT-250
• BioMount	500 mL	BMT-500

\* can be used in automated cover slip machines

### BIOMOUNT HIGH

Medium for permanent covering of microscope samples and medium for mounting cover slips

High viscosity medium (5000-5500 cSt) with refractive index similar to that of glass ( $n_D=1.4900-1.4920$ ).

Contains xylene and methyl methacrylate. BioMount High is suitable for histological and cytological samples cleared with xylene-based media such as BioClear xylene for clearing/deparaffinization.

	packaging	product code
• BioMount High	100 mL	BMTH-100
• BioMount High	250 mL	BMTH-250
• BioMount High	500 mL	BMTH-500

### BIOMOUNT M

Medium for permanent covering of microscope samples and mounting medium for cover slips

Very low viscosity medium (140-160 cSt) with refractive index similar to that of glass ( $n_D=1.4900-$

1.4920). Contains toluene and methyl methacrylate. BioMount M is suitable for histological and cytological samples cleared with xylene-based media such as BioClear xylene for clearing/deparaffinization.

	packaging	product code
• BioMount M	100 mL	BMM-100
• BioMount M	250 mL	BMM-250
• BioMount M	500 mL	BMM-500
• BioMount M, tube	35 mL	BMM-T-35

\* can be used in automated cover slip machines

### BIOMOUNT NEW

Universal medium for permanent covering microscope samples and mounting medium for cover slips

Medium viscosity medium (950-1050 cSt) with refractive index similar to that of glass ( $n_D=1.4385-1.4395$ ).

BioMount New is based on xylene substitute and methyl methacrylate, making it suitable for histological and cytological samples. Not harmful for use. BioMount New is a universal medium for covering microscope sections cleared with a medium based on xylene substitute (BioClear New), as well as a xylene-based medium (BioClear).

	packaging	product code
• BioMount New	100 mL	BMN-100
• BioMount New	250 mL	BMN-250
• BioMount New	500 mL	BMN-500
• BioMount New, tube	35 mL	BMN-T-35

### BIOMOUNT NEW LOW

Universal medium for permanent covering microscope samples and mounting medium for cover slips

Very low viscosity medium (140-160 cSt) with refractive index similar to that of glass ( $n_D=1.4345-1.4365$ ).

BioMount New Low is based on xylene substitute and methyl methacrylate, making it suitable for histological and cytological samples. Not harmful for use. BioMount New is a universal medium for covering microscope sections cleared with a medium based on xylene substitute (BioClear New), as well as a xylene-based medium (BioClear).

	packaging	product code
• BioMount New Low	100 mL	BMNL-100
• BioMount New Low	250 mL	BMNL-250
• BioMount New Low	500 mL	BMNL-500

\* can be used in automated cover slip machines

### BIOMOUNT C

Medium for permanent covering of microscope slides and mounting medium for cover slips

Covering/mounting medium for histological and cytological samples, based on herbal ingredients of conifer tree (Pinaceae), xylene and methyl methacrylate. Its viscosity value is extremely high (5000-5500 cSt) and its refractive index is similar to that of glass ( $n_D=1.4915-1.4925$ ). The medium is an excellent substitute for natural covering media such as Canada Balsam. Suitable for samples cleared with xylene-based media such as BioClear xylene for clearing/deparaffinization.

	packaging	product code
• BioMount C	100 mL	BMC-100
• BioMount C	250 mL	BMC-250
• BioMount C	500 mL	BMC-500



**BIOMOUNT DPX**

Medium viscosity medium for permanent covering of microscope samples and mounting medium for cover slips

Medium viscosity medium (850-950 cSt) with refractive index similar to that of glass ( $n_D=1.5220-1.5230$ ). Contains xylene, dibutyl phthalate and polystyrene. BioMount DPX is suitable for histological and cytological samples cleared with xylene-based media such as BioClear xylene for clearing/deparaffinization.

	packaging	product code
• BioMount DPX	100 mL	BM-100
• BioMount DPX	250 mL	BM-250
• BioMount DPX	500 mL	BM-500
• BioMount DPX, tube	35 mL	BM-T-35

**BIOMOUNT DPX HIGH**

High viscosity medium for permanent covering of microscope samples and medium for mounting cover slips

High viscosity medium (1900-2100 cSt) with refractive index similar to that of glass ( $n_D=1.5260-1.5270$ ). Contains xylene, dibutyl phthalate and polystyrene. Suitable for histological and cytological samples cleared with xylene-based media such as BioClear xylene for clearing/deparaffinization.

	packaging	product code
• BioMount DPX High	100 mL	BMH-100
• BioMount DPX High	250 mL	BMH-250
• BioMount DPX High	500 mL	BMH-500

**BIOMOUNT DPX LOW**

Very low viscosity medium for permanent covering of microscope samples and mounting cover slips

Very low viscosity medium (140-160 cSt) with refractive index similar to that of glass ( $n_D=1.5140-1.5160$ ). Contains xylene, dibutyl phthalate and polystyrene. Suitable for histological and cytological samples cleared with xylene-based media such as BioClear xylene for clearing/deparaffinization.

	packaging	product code
• BioMount DPX Low	100 mL	BML-100
• BioMount DPX Low	250 mL	BML-250
• BioMount DPX Low	500 mL	BML-500

\* can be used in automated cover slip machines

**BIOMOUNT DPX LOW ECO**

Very low viscosity medium for permanent covering of microscope samples and mounting cover slips

Very low viscosity medium (140-160 cSt) with refractive index similar to that of glass ( $n_D=1.5130-1.5150$ ). Contains xylene and polystyrene, and instead of harmful dibutyl phthalate it contains environmentally friendly plasticizer. BioMount DPX Low Eco is suitable for preparing histological and cytological samples cleared with xylene-based media such as BioClear medium for clearing/deparaffinization.

	packaging	product code
• BioMount DPX Low Eco	100 mL	BMLE-100
• BioMount DPX Low Eco	250 mL	BMLE-250
• BioMount DPX Low Eco	500 mL	BMLE-500

\* can be used in automated cover slip machines

## Natural media for permanent covering

**CANADA BALSAM**

Medium for permanent covering of microscope slides and mounting medium for cover slips

Completely natural medium based on herbal ingredients of *Abies balsamea*. Extremely high viscosity medium (10,000-11,000 cSt) with refractive index similar to that of glass ( $n_D=1.5250-1.5270$ ). The medium is suitable for routine work in microscopy and for histological and cytological samples deparaffinized with xylene-based media such as BioClear medium for clearing/deparaffinization.

	packaging	product code
• Canada Balsam	100 mL	KB-100
• Canada Balsam	250 mL	KB-250
• Canada Balsam	500 mL	KB-500

\* in order to protect nature, BioMount C substitute synthetic medium is advised

## Water-based media for covering

**BIOMOUNT AQUA**

Water-based medium for covering microscope slides and mounting medium for cover slips

Water-based covering/mounting medium suitable for histological samples.

	packaging	product code
• BioMount Aqua	100 mL	BMA-100
• BioMount Aqua	250 mL	BMA-250
• BioMount Aqua	500 mL	BMA-500

# Immersion oils

## EIGHT DIFFERENT TYPES OF IMMERSION OILS FOR MICROSCOPICAL ANALYSIS OF PREPARED SAMPLES

Immersion oil is used for microscopic examination of prepared samples with as much detail as possible thereby contributing to a safer diagnosis. BioGnost's Immersion oils were developed in accordance with the ISO 8036-1 standard that guarantees an ideal amount of light dispersion and refractive index ( $n_D @ 23^\circ\text{C} = 1.5150$ ). Each product bears the CE mark, a certificate that denotes the product is in accordance with the EU standards.

Refractive index of the oils is the same as the one of cover slips and glass slides. Oil- immersion lens should be inserted into a drop of BioGnost's Immersion oil after applying it on the glass slide. Rays of light pass through from the sample to the lens because of the same refractive index. That is the reason they enter the oil immersion objective directly and enable a clearer, more detailed image of the sample.

### BioGnost's Immersion oils properties

IMMERSION OIL	VISCOSITY @ 23°C (cSt)	ISO	COMBINING WITH OTHER TYPES OF OIL	TYPE OF MICROSCOPY
IMMERSION OIL	600-1100	+	Immersion oil type A Immersion oil type C Immersion oil type NVH	light
IMMERSION OIL TYPE A	100-150	+	Immersion oil Immersion oil type C Immersion oil type NVH	light
IMMERSION OIL TYPE C	1500-2200	-	Immersion oil Immersion oil type A Immersion oil type NVH	light
CEDARWOOD OIL	1500-2200	+	-	light
IMMERSION OIL, TROPICAL GRADE	1500-2200	*	-	light, for use at 27-29°C
IMMERSION OIL TYPE 37	1250**	***	-	light, for use at 37°C
IMMERSION OIL TYPE FF	170	-	-	fluorescent
IMMERSION OIL TYPE NVH	21000	+	Immersion oil Immersion oil type A Immersion oil type C	light

\* refractive index  $n_D$  at tropical temperatures = 1.515

\*\* viscosity at 37°C

\*\*\* refractive index  $n_D$  at 37°C = 1.5150



**IMMERSION OIL**

Immersion oil for clearer microscopic analysis in accordance with ISO 8036

Immersion oil in accordance with ISO standard, its viscosity level is optimal at 600-1100 cSt, its refractive index is  $n_D=1.5150$  at 23°C. Suitable for mixing with Immersion oils type A, type C and type NVH. Used for microscopic examination of prepared samples with as much details as possible thereby contributing to a safer diagnostic conclusion.

	packaging	product code
• Immersion oil	100 mL	IU-100
• Immersion oil	250 mL	IU-250
• Immersion oil	500 mL	IU-500

**IMMERSION OIL TYPE A**

Immersion oil for clearer microscopic analysis in accordance with ISO 8036

Immersion oil in accordance with ISO standard, its refractive index is  $n_D=1.5150$  and its low viscosity level is optimal at 100-150 cSt and 23°C, which makes it ideal for simple use. Suitable for mixing with Immersion oils type C and type NVH for achieving different viscosity levels.

	packaging	product code
• Immersion oil type A	100 mL	IUA-100
• Immersion oil type A	250 mL	IUA-250
• Immersion oil type A	500 mL	IUA-500

**IMMERSION OIL TYPE C**

Immersion oil for clearer microscopic analysis

Immersion oil that has viscosity of 1500-2200 cSt, its refractive index is similar to that of glass slides and cover slips; it is an excellent replacement for natural immersion oils, such as Cedarwood oil. Suitable for mixing with BioGnost's Immersion oil and Immersion oils types A and type NVH for achieving different viscosity levels.

	packaging	product code
• Immersion oil type C	100 mL	IUC-100
• Immersion oil type C	250 mL	IUC-250
• Immersion oil type C	500 mL	IUC-500

**CEDARWOOD OIL**

Immersion oil for clearer microscopic analysis in accordance with ISO 8036

Immersion oil based on coniferous trees natural resins in accordance with ISO standard. Its viscosity level is 1500-2200 cSt, and of ideal refractive index ( $n_D=1.5150$  at 23°C). Used for microscopic examination of prepared samples with as much detail as possible thereby contributing to a safer diagnostic conclusion.

	packaging	product code
• Cedarwood oil	100 mL	CU-100
• Cedarwood oil	250 mL	CU-250
• Cedarwood oil	500 mL	CU-500

\* in order to protect nature, we advise using other synthetic BioGnost's Immersion oils

**IMMERSION OIL, TROPICAL GRADE**

Immersion oil for clearer microscopical analysis done under tropical climate

Synthetic immersion oil suitable for work under heightened temperatures (27-29°C). It enables ideal refractive index ( $n_D=1.515$ ).

	packaging	product code
• Immersion oil, tropical grade	100 mL	IUT-100
• Immersion oil, tropical grade	250 mL	IUT-250
• Immersion oil, tropical grade	500 mL	IUT-500

**IMMERSION OIL TYPE 37**

Immersion oil for clearer microscopic analysis at 37°C

Immersion oil is suitable for working with *in vivo* samples. It has an ideal refractive index of  $n_D=1.5150$  and optimal viscosity value of 1250 cSt, both achieved at 37°C.

	packaging	product code
• Immersion oil type 37	100 mL	IU37-100
• Immersion oil type 37	250 mL	IU37-250
• Immersion oil type 37	500 mL	IU37-500

**IMMERSION OIL TYPE FF**

Immersion oil for clearer microscopic analysis in fluorescent microscopy

Immersion oil is known for its lack of fluorescence and it is meant for use in fluorescent microscopy.

	packaging	product code
• Immersion oil type FF	100 mL	IUF-100
• Immersion oil type FF	250 mL	IUF-250
• Immersion oil type FF	500 mL	IUF-500

**IMMERSION OIL TYPE NVH**

Immersion oil for clearer microscopic analysis in accordance with ISO 8036

Immersion oil in accordance with ISO standard, its refractive index is  $n_D=1.5150$  and its high viscosity level is optimal at 21,000 cSt at 23°C, which makes it exceptionally suitable for use in invert microscopy. Suitable for mixing with Immersion oils type A and type C for achieving different viscosity levels.

	packaging	product code
• Immersion oil type NVH	100 mL	IUN-100
• Immersion oil type NVH	250 mL	IUN-250
• Immersion oil type NVH	500 mL	IUN-500

# Marking systems

## TISSUE MARKING DYES

For marking and orientation of tissue samples

Tissue marking dyes are used in marking and orientation of tissue samples for histopathological processing. Marking of tissue in multiple colors enables multiple samples processing in one embedding cassette. Sets consist of 5 or 7 different colors in a wooden tray and 50 sticks for applying the dye onto tissue.

	packaging	product code
▪ Tissue marking dyes, set*	5x50 mL	3408-SET
▪ Tissue marking dyes, set**	7x50 mL	3408-SET-7
▪ Tissue marking dyes, green	50 mL	3408-1-50
▪ Tissue marking dyes, green	100 mL	3408-1-100
▪ Tissue marking dyes, green	250 mL	3408-1-250
▪ Tissue marking dyes, yellow	50 mL	3408-2-50
▪ Tissue marking dyes, yellow	100 mL	3408-2-100
▪ Tissue marking dyes, yellow	250 mL	3408-2-250
▪ Tissue marking dyes, black	50 mL	3408-3-50
▪ Tissue marking dyes, black	100 mL	3408-3-100
▪ Tissue marking dyes, black	250 mL	3408-3-250
▪ Tissue marking dyes, red	50 mL	3408-4-50
▪ Tissue marking dyes, red	100 mL	3408-4-100
▪ Tissue marking dyes, red	250 mL	3408-4-250
▪ Tissue marking dyes, blue	50 mL	3408-5-50
▪ Tissue marking dyes, blue	100 mL	3408-5-100
▪ Tissue marking dyes, blue	250 mL	3408-5-250
▪ Tissue marking dyes, orange	50 mL	3408-6-50
▪ Tissue marking dyes, orange	100 mL	3408-6-100
▪ Tissue marking dyes, orange	250 mL	3408-6-250
▪ Tissue marking dyes, lilac	50 mL	3408-7-50
▪ Tissue marking dyes, lilac	100 mL	3408-7-100
▪ Tissue marking dyes, lilac	250 mL	3408-7-250

\* tissue marking dyes set 5x50 mL contains 5 dyes for tissue marking: green, yellow, black, red, and blue

\*\* tissue marking dyes set 7x50 mL contains 7 dyes for tissue marking: green, yellow, black, red, blue, orange, and lilac

## DUOLINE AND WRITE-ON MARKER PENS

Professional marker pens for permanent labeling of cassettes, slides, and transport containers

Marker pens for labeling cassettes and slides resistant to commonly used chemicals in histology and cytology, such as alcohol, xylene, and formalin.

	packaging	product code
▪ Duoline marker pen	1 pc	MD-1
▪ Write-On marker pen	1 pc	M495-12

## LIQUID BLOCKER MARKER PEN

Marker pens with hydrophobic agent

Used to apply hydrophobic agent in order to limit the area of staining and save costly immunohistochemistry reagents. Liquid Blocker markers can write on wet glass and are resistant to temperatures up to 120°C.

	packaging	product code
▪ Liquid Blocker marker pen	1 pc	ML-1





## BIOWAX 52/54

Blend of paraffin granules with low melting point for optimal infiltration and routine work

Blend of paraffin waxes for making paraffin blocks with melting point at 52/54°C for processing wide range of different samples. Lower melting point makes it suitable for working with soft tissues without deforming and damaging and allows good preservation of tissue morphology during processing.

	packaging	product code
• BioWax 52/54	1 kg	BW52/54-1
• BioWax 52/54	2 kg	BW52/54-2
• BioWax 52/54	10 kg	BW52/54-10

## BIOWAX 56/58

Blend of paraffin granules for optimal infiltration and routine work

Blend of paraffin waxes for making paraffin blocks with melting point at 56/58°C that enables easier formation of ribbons, virtually no cut resistance and better overall results.

	packaging	product code
• BioWax 56/58	1 kg	BW56/58-1
• BioWax 56/58	2 kg	BW56/58-2
• BioWax 56/58	10 kg	BW56/58-10

## BIOWAX BLUE

Blend of blue paraffin granules with added plastic polymers for optimal infiltration

Blend of paraffin waxes for making paraffin blocks with melting point at 56/58°C, especially suitable for small tissue samples, such as biopsy samples. Blue color provides the contrast that enables easier visualization during processing using a microscope. It is recommended for use in immunoperoxidase methods.

	packaging	product code
• BioWax Blue	1 kg	BWB-1
• BioWax Blue	2 kg	BWB-2
• BioWax Blue	10 kg	BWB-10

## BIOWAX MICRO

Blend of paraffin granules for optimal infiltration and routine work

Blend of paraffin wax for making paraffin blocks with melting point at 56/58°C. Added microcrystals allow high quality tissue infiltration, easy separation of the block, flexibility and excellent section shaping without deformation.

	packaging	product code
• BioWax Micro	1 kg	BWM-1
• BioWax Micro	2 kg	BWM-2
• BioWax Micro	10 kg	BWM-10

## BIOWAX PLUS 56/58

Ultrafiltered paraffin with added plastic polymers for infiltration and embedding

An optimal blend of paraffin wax and plastic polymers with melting point at 56/58°C. Its properties include low shrinkage rate during cooling down and excellent section creation without deformations. Provides excellent infiltration into tissues and reduces the tendency of tissue to crack.

	packaging	product code
• BioWax Plus 56/58	1 kg	BWPLUS-1
• BioWax Plus 56/58	2 kg	BWPLUS-2
• BioWax Plus 56/58	10 kg	BWPLUS-10

# Infiltration, embedding and demolding media



## CRYOFIX GEL

Embedding matrix for cryostat sectioning in different colors

CryoFix Gel matrix contains mixture of polymers soluble in water. The polymers' freezing point is ideal for cryostat sectioning. Stained matrices enable easier visualization of embedded samples and easier organization of work.

- CryoFix Gel
- CryoFix Gel pink
- CryoFix Gel blue
- CryoFix Gel green
- CryoFix Gel yellow

	packaging	product code
	100 mL	CF-100
	100 mL	CFR-100
	100 mL	CFP-100
	100 mL	CFZ-100
	100 mL	CFY-100

## CRYO SPRAY

Medium in spray bottle for freezing histological samples

Cryo Spray enables quick freezing of histological samples prior to sectioning on cryostat.

- Cryo Spray

	packaging	product code
	150 mL	08-SPRAY

## DEMOLD SPRAY

Solution in spray bottle for easy removal of paraffin tissue blocks

DeMold Spray is applied to the mold prior to the samples placement and pouring the paraffin, allowing easy and quick removal of tissue blocks from the mold.

- DeMold Spray

	packaging	product code
	100 mL	DS-100

## DEMOLD SOLUTION

Solution for refill of DeMold Spray spray bottle

DeMold Spray is applied to the mold prior to the samples placement and pouring the paraffin. It allows easy and quick removal of tissue blocks from the mold.

- DeMold solution
- DeMold solution

	packaging	product code
	500 mL	DSO-500
	1000 mL	DSO-1L

## BLUING REAGENT

Reagent for conversion of red hematoxylin stained nuclei to blue

A mild and efficient reagent based on lithium carbonate for rapid bluing of the red-colored nuclei. Treat the sections with Bluing reagent after differentiating the sections using Acid alcohol or HCL Pap reagent. The reagent is buffered to pH 8.

- Bluing reagent
- Bluing reagent

packaging	product code
1000 mL	BR-OT-1L
2500 mL	BR-OT-2.5L

## ACID ALCOHOL

Reagent for section differentiation after regressive staining using hematoxylin

Acid alcohol is used in various staining methods, usually in regressive HE staining methods and provides excellent nuclear and non-nuclear differentiation, as well as removing excessive hematoxylin from the sample.

- Acid alcohol
- Acid alcohol

packaging	product code
1000 mL	KA-OT-1L
2500 mL	KA-OT-2.5L

## SCOTT'S SOLUTION

Reagent for conversion of red hematoxylin stained nuclei to blue

Scott's solution enables fast and accurate bluing of nuclear chromatin and membranes of cell nucleus. It is also known as Scott's tap water substitute. Treat the samples with Scott's solution after differentiating the sample with Acid alcohol or HCL Pap reagent.

- Scott's solution
- Scott's solution

packaging	product code
1000 mL	SC-OT-1L
2500 mL	SC-OT-2.5L

## HCL PAP REAGENT

Aqueous solution of hydrochloric acid for differentiating between cytology samples after staining with hematoxylin

HCL Pap reagent is used in regressive methods of staining cytology samples according to the Papanicolaou method, in turn achieving excellent nuclear and non-nuclear structures differentiation and removal of excessive hematoxylin from the sample.

- HCL Pap reagent
- HCL Pap reagent

packaging	product code
1000 mL	HCLPAP-OT-1L
2500 mL	HCLPAP-OT-2.5L







## Staining solutions for microscopy

BioGnost's sales range includes 11 hematoxylin solutions that enable high quality and detailed image of stained nuclei. It also includes several sorts of aqueous and alcoholic eosin solutions, as well as Pap reagents that enable excellent differentiation between cellular structures, hematological reagents such as Giemsa and May-Gruenwald for standard Romanowsky staining of hematological sections and smears, and also Bio-Diff and Bio-Diff RTU kits for practical and rapid Romanowsky staining. BioGram and TB-Stain Hot/Cold kits are most commonly used in bacteriology. More about BioGnost's special staining kits can be found on page 47 of the catalog.

For more info ask our sales team or visit our [web page](#).

# Hematoxylin reagents

## ELEVEN DIFFERENT HEMATOXYLIN SOLUTIONS

Each of BioGnost's Hematoxylin reagents is specially stabilized in order to maintain the reagent's reactivity for prolonged periods of time, as well as to maintain the quality of the reagents. Every staining provides crystal clear and highly detailed image of cell's nucleus, which in turn makes abnormal or pathological changes easier to detect.

BioGnost offers several types of hematoxylin reagents of lower or higher concentration, intended for cytology or histology. Depending on use, they may be used in regressive and/or progressive method.

**Hematoxylin H** - most commonly used in routine HE staining procedure (according to Harris). Stronger dye concentration enables the user to choose the needed intensity of nuclei staining. Does not contain mercury oxide.

**Hematoxylin M** - intended for progressive, routine hematoxylin and eosin (HE) staining and counterstaining in immunohistochemistry (according to Mayer). Contains chloral hydrate.

**Hematoxylin ML** - formulation according to Mayer-Lillie, used in progressive and regressive HE staining, and also counterstaining in immunohistochemistry.

**Hematoxylin G1, G2 i G3** - specially stabilized solutions. Does not require filtration (according to Gill). Staining intensity increases from Hematoxylin G1 and G2 (progressive staining) to Hematoxylin G3 (progressive and regressive staining).

**Hematoxylin CAR** - used in progressive routine hematoxylin and eosin (HE) staining, but also in staining frozen sections of urgent biopsies. It enables precise nuclear staining without staining cytoplasmic components.

**Hematoxylin COL** - hematoxylin solution oxidized using iodine. May be used in progressive and regressive staining methods.

**Hematoxylin HP, PAP 1A** - solution for progressive and regressive staining according to Harris in cytology. Special formulations for staining acc. to Papanicolaou and in exfoliative cytology.

**Hematoxylin W kit** - Weigert hematoxylin formulations are not washed out in acid solutions. It is often a component of special stains kits for staining connective tissues. Contains two solutions: Hematoxylin, Weigert A and Ferri reagent, Weigert B.

**Hematoxylin P.T.A.** - hematoxylin solution containing phosphotungstic acid, it enables simultaneous staining with two different colors, no additional counterstaining is required. For differentiation between fibrin, smooth and cross-striated muscle fibers.

### Properties of BioGnost's Hematoxylin reagents

TYPE OF HEMATOXYLIN	CYTOLOGY	HISTOLOGY	IMMUNOHISTOCHEMISTRY	PROGRESSIVE METHOD	REGRESSIVE METHOD	FILTRATION
HEMATOXYLIN H	-	+	-	+	+	necessary
HEMATOXYLIN M	-	+	+	+	-	not necessary
HEMATOXYLIN ML	-	+	+	+	+	necessary
HEMATOXYLIN G1	+	+	+	+	-	not necessary
HEMATOXYLIN G2	+	+	+	+	-	not necessary
HEMATOXYLIN G3	+	+	-	+	YES histopathology NO cytology	not necessary
HEMATOXYLIN CAR	-	+	+	+	-	not necessary
HEMATOXYLIN COL	-	+	+	+	+	not necessary
HEMATOXYLIN HP, PAP 1A	+	-	-	+	+	not necessary
HEMATOXYLIN W KIT	-	+	+	+	acid-fast	not necessary
HEMATOXYLIN P.T.A.	-	+	-	+	-	not necessary



### HEMATOXYLIN G1

Hematoxylin for nuclear staining acc. to Gill

Next generation of reagents for progressive staining in histopathology and cytology

Low concentrations of hematoxylin in G1 formulation allow delicate staining of cell nuclei. An ideal choice for staining goblet cells. Specimens staining is gradual and differentiation is not required. In addition to histopathology and cytology, it is also used for counterstaining in immunohistochemistry.

	packaging	product code
• Hematoxylin G1	100 mL	HEMG1-OT-100
• Hematoxylin G1	10x100 mL	HEMG1-OT-110
• Hematoxylin G1	500 mL	HEMG1-OT-500
• Hematoxylin G1	1000 mL	HEMG1-OT-1L
• Hematoxylin G1	2500 mL	HEMG1-OT-2.5L

### HEMATOXYLIN G2

Hematoxylin for nuclear staining acc. to Gill

Next generation of reagents for progressive staining in histopathology and cytology

Unlike G1 formulation, G2 stains cell nuclei more intensively and in a shorter period of time. In addition to histopathology and cytology, it is also used for counterstaining in immunohistochemistry. Contains double the amount of active hematoxylin compared to Hematoxylin G1.

	packaging	product code
• Hematoxylin G2	100 mL	HEMG2-OT-100
• Hematoxylin G2	10x100 mL	HEMG2-OT-110
• Hematoxylin G2	500 mL	HEMG2-OT-500
• Hematoxylin G2	1000 mL	HEMG2-OT-1L
• Hematoxylin G2	2500 mL	HEMG2-OT-2.5L

### HEMATOXYLIN G3

Modified hematoxylin for nuclear staining acc. to Gill

Next generation of reagents for regressive staining in histopathology and cytology, and regressive staining in histopathology

G3 formulation of hematoxylin stains cellular nuclei with strong intensity within a very short time period. Contains triple the amount of active hematoxylin dye compared to Hematoxylin G1.

	packaging	product code
• Hematoxylin G3	100 mL	HEMG3-OT-100
• Hematoxylin G3	10x100 mL	HEMG3-OT-110
• Hematoxylin G3	500 mL	HEMG3-OT-500
• Hematoxylin G3	1000 mL	HEMG3-OT-1L
• Hematoxylin G3	2500 mL	HEMG3-OT-2.5L



## HEMATOXYLIN H

Modified hematoxylin for nuclear staining in histology acc. to Harris  
Reagent for strong, progressive and regressive staining in histopathology

Commonly used formulation in the classic hematoxylin and eosin staining (HE). It does not contain toxic mercury oxide, which has been replaced by environmentally friendly sodium iodate.

	packaging	product code
• Hematoxylin H	100 mL	HEMH-OT-100
• Hematoxylin H	10x100 mL	HEMH-OT-110
• Hematoxylin H	500 mL	HEMH-OT-500
• Hematoxylin H	1000 mL	HEMH-OT-1L
• Hematoxylin H	2500 mL	HEMH-OT-2.5L

## HEMATOXYLIN HP, PAP 1A

Modified Harris hematoxylin solution for nuclear staining acc. to Papanicolaou  
Solution for progressive and regressive staining in exfoliative cytology

Modified Harris hematoxylin solution with low pH is specially made for use in cytology. Optimized for work in combination with BioGnost's Pap 2A, 3A and 3B reagents, as well with HCL Pap reagent.

	packaging	product code
• Hematoxylin HP, Pap 1A	100 mL	HEMHP-OT-100
• Hematoxylin HP, Pap 1A	10x100 mL	HEMHP-OT-110
• Hematoxylin HP, Pap 1A	500 mL	HEMHP-OT-500
• Hematoxylin HP, Pap 1A	1000 mL	HEMHP-OT-1L
• Hematoxylin HP, Pap 1A	2500 mL	HEMHP-OT-2.5L

## HEMATOXYLIN M

Modified hematoxylin for nuclear staining acc. to Mayer  
Reagent for progressive staining in histopathology and as a counterstain in immunohistochemistry

Apart from use in routine histopathology, this non-alcoholic formulation is also used in immunohistochemistry, especially in chromogen aminoethylcarbazole (AEC) reactions. Contains chloral hydrate.

	packaging	product code
• Hematoxylin M	100 mL	HEMM-OT-100
• Hematoxylin M	10x100 mL	HEMM-OT-110
• Hematoxylin M	500 mL	HEMM-OT-500
• Hematoxylin M	1000 mL	HEMM-OT-1L
• Hematoxylin M	2500 mL	HEMM-OT-2.5L

## HEMATOXYLIN ML

Modified hematoxylin for nuclear staining acc. to Mayer-Lillie  
Next generation of reagents for progressive and regressive staining in histopathology

Specially stabilized formulation, higher concentration of hematoxylin (compared to classic Mayer formulation) and low pH value result in stronger dye selectivity to chromatin. It also stains mucins during regressive nuclear staining method. Component of many special stains kits.

	packaging	product code
• Hematoxylin ML	100 mL	HEMML-OT-100
• Hematoxylin ML	10x 100 mL	HEMML-OT-110
• Hematoxylin ML	500 mL	HEMML-OT-500
• Hematoxylin ML	1000 mL	HEMML-OT-1L
• Hematoxylin ML	2500 mL	HEMML-OT-2.5L

## HEMATOXYLIN P.T.A.

Synonyms: Hematoxylin Phosphotungstic Acid, Mallory P.T.A.H. reagent

Hematoxylin containing phosphotungstic acid enables simultaneous staining with two different colors (reddish-brown, blue) depending on the type of tissue, no additional counterstaining is required. For differentiation between fibrin, smooth and cross-striated muscle fibers.

	packaging	product code
• Hematoxylin P.T.A.	500 mL	HPTA-OT-500
• Hematoxylin P.T.A.	1000 mL	HPTA-OT-1L

## HEMATOXYLIN W KIT

Hematoxylin acc. to Weigert

Kit contains two reagents, stains the nuclei blue-black

Weigert acid-resistant hematoxylin formulation is not washed out in acid solutions. It is often a component of special staining kits for staining connective tissues.

	packaging	product code
• Hematoxylin W kit	2x100 mL	HEMW-K-100
• Hematoxylin W kit	2x500 mL	HEMW-K-500
• Hematoxylin W kit	2x1000 mL	HEMW-K-1L

## HEMATOXYLIN CAR

Modified hematoxylin acc. to Carazzi for nuclear staining

Reagent for progressive staining of frozen sections in histopathology

Hematoxylin CAR is used for precise staining of cellular nuclei during routine histopathology sample processing, however, it is also used during urgent biopsies of frozen sections. It is used for progressive staining method with short incubation period. It provides mild and precise nuclear staining without staining cytoplasmic components.

	packaging	product code
• Hematoxylin CAR	100 mL	HEMCA-OT-100
• Hematoxylin CAR	10x100 mL	HEMCA-OT-110
• Hematoxylin CAR	500 mL	HEMCA-OT-500
• Hematoxylin CAR	1000 mL	HEMCA-OT-1L
• Hematoxylin CAR	2500 mL	HEMCA-OT-2.5L

## HEMATOXYLIN COL

Modified hematoxylin acc. to Cole for nuclear staining

Reagent for progressive and regressive staining in histopathology

Hematoxylin COL is oxidized using iodine and can be used as a substitution for Hematoxylin M. Unlike Hematoxylin M used in progressive staining method, Hematoxylin COL is used in both progressive and regressive staining methods.

	packaging	product code
• Hematoxylin COL	100 mL	HEMCO-OT-100
• Hematoxylin COL	10x100 mL	HEMCO-OT-110
• Hematoxylin COL	500 mL	HEMCO-OT-500
• Hematoxylin COL	1000 mL	HEMCO-OT-1L
• Hematoxylin COL	2500 mL	HEMCO-OT-2.5L

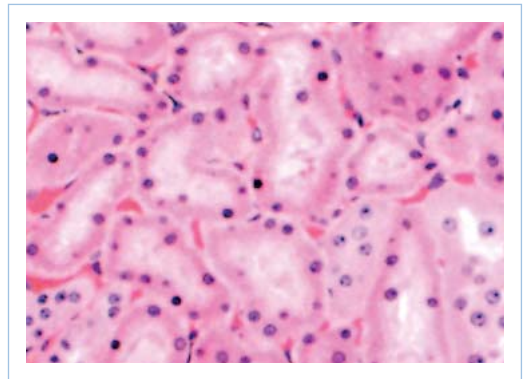


# Eosin solutions

## NINE DIFFERENT EOSIN Y SOLUTIONS FOR STAINING IN HISTOLOGY

BioGnost's Eosin Y solutions (yellowish eosin) are regularly used as counterstains to hematoxylin in standard histology staining method, the hematoxylin and eosin (HE) staining. They stain cytoplasm, collagen, keratin, and erythrocytes.

In order to achieve better visualization and cellular structure differentiation, HE nuclear staining method stains the nuclei of microscopic samples blue, then cytoplasm is stained in several hues of pink using Eosin Y. BioGnost offers several modifications of Eosin Y solutions so that each histology laboratory can choose an optimal formulation for their needs. Eosin Y is anion dye; besides basic cellular components (such as cytoplasm, collagen, and muscle fibers) it also stains erythrocytes bright red.



Most commonly used solutions are Eosin Y aqueous solutions, but alcoholic solutions are also used; they enable display of more intense hue of pink. Especially intense and clearly visible hues of red and pink are displayed by alcoholic solutions Eosin Contrast (a combination of Eosin Y and Phloxine B dyes) and Eosin Contrast PLUS (Eosin Y, Phloxine B, and Biebrich Scarlet).



### EOSIN CONTRAST

Modified alcoholic solution for cytoplasmic counterstaining

The reagent contains Eosin Y and Phloxine B for enhanced cytoplasmic counterstaining effect

Besides Eosin Y (0.1%), Eosin Contrast solution contains Phloxine B (0.1%) that enhances counterstaining by providing intensive hues of pink on histological section.

	packaging	product code
• Eosin Contrast	1000 mL	EOYK-OT-1L
• Eosin Contrast	2500 mL	EOYK-OT-2.5L

### EOSIN CONTRAST PLUS

Modified alcoholic solution for cytoplasmic counterstaining

The reagent contains Eosin Y, Phloxine B, and Biebrich Scarlet dyes for enhanced cytoplasmic counterstaining effect

Alcoholic solution Eosin Contrast PLUS contains three different dyes in different concentrations: Eosin Y (0.5%), Phloxine B (0.2%), and Biebrich Scarlet (0.04%). This combination enables a range of intense hues of pink to red on histological section.

	packaging	product code
• Eosin Contrast PLUS	1000 mL	EOYKP-OT-1L
• Eosin Contrast PLUS	2500 mL	EOYKP-OT-2.5L

### ALCOHOLIC EOSIN Y SOLUTIONS

Alcoholic eosin Y solutions for cytoplasmic counterstaining

Reagents used for cytoplasmic counterstaining are most commonly used in classic hematoxylin and eosin (HE) staining. They provide exceptional results and excellent differentiation between cytoplasmic structures. Alcoholic eosin Y solutions provide stronger section staining intensity compared to equal concentrations of aqueous solutions.

	packaging	product code
• Eosin Y 0.5% alcoholic	1000 mL	EOYA-05-OT-1L
• Eosin Y 0.5% alcoholic	2500 mL	EOYA-05-OT-2.5L
• Eosin Y 1% alcoholic	1000 mL	EOYA-10-OT-1L
• Eosin Y 1% alcoholic	2500 mL	EOYA-10-OT-2.5L
• Eosin Y 2% alcoholic	1000 mL	EOYA-20-OT-1L
• Eosin Y 2% alcoholic	2500 mL	EOYA-20-OT-2.5L

### EOSIN Y AQUEOUS SOLUTIONS

Eosin Y aqueous solutions for cytoplasmic counterstaining

Cytoplasmic counterstaining reagents are most often used in classic hematoxylin and eosin (HE) staining. Intensity of section staining is enhanced by increasing Eosin Y concentration.

	packaging	product code
• Eosin Y 0.2% aqueous	1000 mL	EOY-02-OT-1L
• Eosin Y 0.2% aqueous	2500 mL	EOY-02-OT-2.5L
• Eosin Y 0.5% aqueous	1000 mL	EOY-05-OT-1L
• Eosin Y 0.5% aqueous	2500 mL	EOY-05-OT-2.5L
• Eosin Y 1% aqueous	1000 mL	EOY-10-OT-1L
• Eosin Y 1% aqueous	2500 mL	EOY-10-OT-2.5L
• Eosin Y 2% aqueous	1000 mL	EOY-20-OT-1L
• Eosin Y 2% aqueous	2500 mL	EOY-20-OT-2.5L

# Staining solutions for cytology

## Nuclear stains

### HEMATOXYLIN HP, PAP 1A

Modified Harris hematoxylin solution for nuclear staining acc. to Papanicolaou

Solution for progressive and regressive staining in exfoliative cytology

Modified Harris hematoxylin solution with low pH is specially made for use in cytology. Optimized for work in combination with BioGnost's Pap 2A, 3A and 3B reagents, as well with HCL Pap reagent.

	packaging	product code
• Hematoxylin HP, Pap 1A	100 mL	HEMHP-OT-100
• Hematoxylin HP, Pap 1A	10x100 mL	HEMHP-OT-110
• Hematoxylin HP, Pap 1A	500 mL	HEMHP-OT-500
• Hematoxylin HP, Pap 1A	1000 mL	HEMHP-OT-1L
• Hematoxylin HP, Pap 1A	2500 mL	HEMHP-OT-2.5L

### HEMATOXYLIN G1

Hematoxylin for nuclear staining acc. to Gill

Next generation of reagents for progressive staining in histopathology and cytology

Low concentrations of hematoxylin in G1 formulation allow delicate staining of cell nuclei. An ideal choice for staining goblet cells. Specimens staining is gradual and differentiation is not required. In addition to histopathology and cytology, it is also used for counterstaining in immunohistochemistry.

	packaging	product code
• Hematoxylin G1	100 mL	HEMG1-OT-100
• Hematoxylin G1	10x100 mL	HEMG1-OT-110
• Hematoxylin G1	500 mL	HEMG1-OT-500
• Hematoxylin G1	1000 mL	HEMG1-OT-1L
• Hematoxylin G1	2500 mL	HEMG1-OT-2.5L

### HEMATOXYLIN G2

Hematoxylin for nuclear staining acc. to Gill

Next generation of reagents for progressive staining in histopathology and cytology

Unlike G1 formulation, G2 stains cell nuclei more intensively and in a shorter period of time. In addition to histopathology and cytology, it is also used for counterstaining in immunohistochemistry.

Contains double the amount of active hematoxylin compared to Hematoxylin G1.

	packaging	product code
• Hematoxylin G2	100 mL	HEMG2-OT-100
• Hematoxylin G2	10x100 mL	HEMG2-OT-110
• Hematoxylin G2	500 mL	HEMG2-OT-500
• Hematoxylin G2	1000 mL	HEMG2-OT-1L
• Hematoxylin G2	2500 mL	HEMG2-OT-2.5L

### HEMATOXYLIN G3

Modified hematoxylin for nuclear staining acc. to Gill

Next generation of reagents for regressive staining in histopathology and cytology, and regressive staining in histopathology

G3 formulation of hematoxylin stains cellular nuclei with strong intensity within a very short time period. Contains triple the amount of active hematoxylin dye compared to Hematoxylin G1.

	packaging	product code
• Hematoxylin G3	100 mL	HEMG3-OT-100
• Hematoxylin G3	10x100 mL	HEMG3-OT-110
• Hematoxylin G3	500 mL	HEMG3-OT-500
• Hematoxylin G3	1000 mL	HEMG3-OT-1L
• Hematoxylin G3	2500 mL	HEMG3-OT-2.5L

### HCL PAP REAGENT

Aqueous solution of hydrochloric acid for differentiating between cytology samples after staining with hematoxylin

HCL Pap reagent is used in regressive methods of staining cytology samples according to the Papanicolaou method, in turn achieving excellent nuclear and non-nuclear structures differentiation and removal of excessive hematoxylin from the sample.

	packaging	product code
• HCL Pap reagent	1000 mL	HCLPAP-OT-1L
• HCL Pap reagent	2500 mL	HCLPAP-OT-2.5L

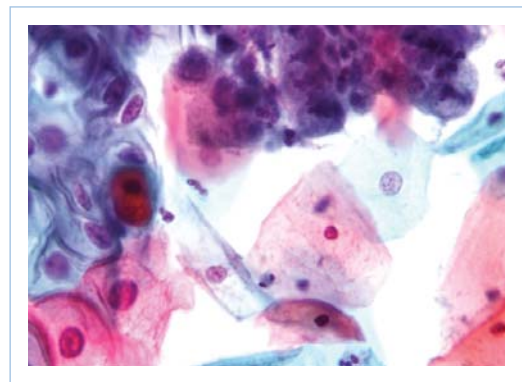


# Papanicolaou reagents

## REAGENTS FOR STAINING ACC. TO PAPANICOLAOU

Because of its simplicity of use and exceptional precision in diagnostics, reagents for staining according to Papanicolaou have substantially contributed to decreasing the occurrence of cervical cancer. BioGnost's staining reagents acc. to Papanicolaou are stabilized solutions that by using a simple staining protocol enable excellent differentiation between cellular structures.

Hematoxylin HP, Pap 1A is ideal for intense staining of cytological smears using progressive and regressive methods and it produces exceptional results by staining the chromatin of normal and abnormal cells. Monochromatic OG-6 reagent, Pap 2A and polychromatic EA Pap reagents are used for counterstaining the sample. OG-6 Pap reagent stains cytoplasm of mature, keratinized cells, while polychromatic EA reagents indicate squamous cells differentiation, that is, the difference between basophilic and acidophilic cells. BioGnost's Pap staining kit is used not only in gynecology but also for staining samples of digestive tract and pulmonary system, gland punctates, lymphatic organs, abdomen, body cavity fluids and cerebrospinal fluids.



# Staining solutions for cytology

## Cytoplasmic staining reagents

### OG-6 REAGENT, PAP 2A

Reagent for cytoplasmic staining acc. to Papanicolaou

Counterstain for monochromatic staining of samples in cytology

Required counterstain in staining method according to Papanicolaou. Alcoholic solution of Orange G stain with an optimal concentration of phosphomolybdic acid for fast and effective staining of keratinized cytoplasm.

	packaging	product code
• OG-6 reagent, Pap 2A	100 mL	OG6-OT-100
• OG-6 reagent, Pap 2A	10x100 mL	OG6-OT-110
• OG-6 reagent, Pap 2A	500 mL	OG6-OT-500
• OG-6 reagent, Pap 2A	1000 mL	OG6-OT-1L
• OG-6 reagent, Pap 2A	2500 mL	OG6-OT-2.5L

### ORANGE II REAGENT, PAP 2B

Reagent used for cytoplasmic staining acc. to Papanicolaou

Counterstain used for monochromatic staining of samples in cytology

Unlike OG-6 reagent, Pap 2A, Orange II reagent, Pap 2B stains the cytoplasm of keratinized cells in a more intensive hue of red.

	packaging	product code
• Orange II reagent, Pap 2B	100 mL	OR2-OT-100
• Orange II reagent, Pap 2B	10x100 mL	OR2-OT-110
• Orange II reagent, Pap 2B	500 mL	OR2-OT-500
• Orange II reagent, Pap 2B	1000 mL	OR2-OT-1L
• Orange II reagent, Pap 2B	2500 mL	OR2-OT-2.5L

### EA 31 REAGENT, PAP 3A

Reagent for cytoplasmic staining according to Papanicolaou staining method

Counterstain in polychromatic staining of gynecological samples in cytology

The most commonly used EA reagent. Provides excellent differential staining of previously unstained parts of cytoplasm with OG-6 solution. Contains green dye, eosin y and phosphotungstic acid that enables selective staining of cytoplasm of hormonally different cells.

	packaging	product code
• EA 31 reagent, Pap 3A	100 mL	EA31-OT-100
• EA 31 reagent, Pap 3A	10x100 mL	EA31-OT-110
• EA 31 reagent, Pap 3A	500 mL	EA31-OT-500
• EA 31 reagent, Pap 3A	1000 mL	EA31-OT-1L
• EA 31 reagent, Pap 3A	2500 mL	EA31-OT-2.5L

### EA 50 REAGENT, PAP 3B

Reagent for cytoplasmic staining according to Papanicolaou staining method

Polychromatic counterstain for staining gynecological samples in cytology

Polychromatic reagent that contains green dye, eosin y and phosphotungstic acid that enables selective staining of cytoplasm of hormonally different cells. EA reagent formulation that contains the least amount of green dye.

	packaging	product code
• EA 50 reagent, Pap 3B	100 mL	EA50-OT-100
• EA 50 reagent, Pap 3B	10x100 mL	EA50-OT-110
• EA 50 reagent, Pap 3B	500 mL	EA50-OT-500
• EA 50 reagent, Pap 3B	1000 mL	EA50-OT-1L
• EA 50 reagent, Pap 3B	2500 mL	EA50-OT-2.5L

### EA 65 REAGENT, PAP 3C

Reagent for cytoplasmic staining according to Papanicolaou staining method – red hue

Polychromatic counterstain for staining non-gynecological samples in cytology

Contains less amount of green dye in comparison to EA 31 formulation, for greener and transparent cytoplasmic staining. For staining mucous, non-gynecological samples. Contains green dye, eosin Y and Bismarck Brown, as well as phosphotungstic acid that enables selective cytoplasmic staining of hormonally different cells.

	packaging	product code
• EA 65 reagent, Pap 3C	100 mL	EA65C-OT-100
• EA 65 reagent, Pap 3C	10x100 mL	EA65C-OT-110
• EA 65 reagent, Pap 3C	500 mL	EA65C-OT-500
• EA 65 reagent, Pap 3C	1000 mL	EA65C-OT-1L
• EA 65 reagent, Pap 3C	2500 mL	EA65C-OT-2.5L

### EA 65 REAGENT, PAP 3D

Reagent for cytoplasmic staining according to Papanicolaou staining method - blue-green hue

Polychromatic counterstain for staining non-gynecological samples in cytology

Polychromatic reagent that contains green dye, eosin y and phosphotungstic acid that enables selective staining of cytoplasm of hormonally different cells. For staining mucous, non-gynecological samples, such as bone marrow smears.

	packaging	product code
• EA 65 reagent, Pap 3D	100 mL	EA65D-OT-100
• EA 65 reagent, Pap 3D	10x100 mL	EA65D-OT-110
• EA 65 reagent, Pap 3D	500 mL	EA65D-OT-500
• EA 65 reagent, Pap 3D	1000 mL	EA65D-OT-1L
• EA 65 reagent, Pap 3D	2500 mL	EA65D-OT-2.5L



### BIO-DIFF KIT

Three-reagent kit for rapid staining in hematology

Contains fixative agent, and red and blue components for fast and effective staining of hematological samples

The kit effectively stains hematological samples in short time periods and provides precise results.

Each component of Bio-Diff kit is specially stabilized and prepared according to the highest standards. The kit also contains buffer tablets pH 7.2, the amount depends on the packaging.

	packaging	product code
• Bio-Diff kit	3x100 mL	BD-K-100
• Bio-Diff kit	3x500 mL	BD-K-500
• Bio-Diff kit	3x1000 mL	BD-K-1L

### BIO-DIFF RTU KIT

Three-reagent kit for Ready-to-Use staining

Contains fixative agent, and red and blue components for fast and effective staining

Bio-Diff RTU kit enables fast, simple and practical staining of hematological, parasitological, microbiological, histological, and cytological sections (such as semen smears) according to May-Gruenwald Giemsa staining. The reagents are stored in impermeable polypropylene jars that samples can be dipped into. The kit also contains buffer tablet for preparing pH 7.2 buffer solution that provides consistent staining results.

	packaging	product code
• Bio-Diff RTU kit	3x100 mL	BD-RTU-100

# Staining solutions for hematology

## Reagents for hematological staining

### BIO-DIFF 1 REAGENT

Fixative agent, component of Bio-Diff kit

Fixative optimal composition for fast and effective fixation of hematological samples.

	packaging	product code
• Bio-Diff 1 reagent	100 mL	BD1-OT-100
• Bio-Diff 1 reagent	10x100 mL	BD1-OT-110
• Bio-Diff 1 reagent	500 mL	BD1-OT-500
• Bio-Diff 1 reagent	1000 mL	BD1-OT-1L

### BIO-DIFF 1 RTU REAGENT

Fixative component Bio-Diff RTU (Ready-to-Use) kit

Fixative component for fast and high quality fixation of hematological samples.

	packaging	product code
• Bio-Diff 1 RTU reagent	100 mL	BD1-RTU

### BIO-DIFF 2 REAGENT

Red component of Bio-Diff kit

Buffered aqueous solution of Eosin Y of optimal concentration and composition for fast and effective staining of hematological samples.

	packaging	product code
• Bio-Diff 2 reagent	100 mL	BD2-OT-100
• Bio-Diff 2 reagent	10x100 mL	BD2-OT-110
• Bio-Diff 2 reagent	500 mL	BD2-OT-500
• Bio-Diff 2 reagent	1000 mL	BD2-OT-1L

### BIO-DIFF 2 RTU REAGENT

Red component of Bio-Diff RTU (Ready-to-Use) kit

Buffered aqueous solution of Eosin Y of optimal concentration and composition for fast and effective staining of hematological samples.

	packaging	product code
• Bio-Diff 2 RTU reagent	100 mL	BD2-RTU

### BIO-DIFF 3 REAGENT

Blue component of Bio-Diff kit

Buffered aqueous solution of Methylene Blue and azure dyes of optimal concentration and composition for fast and effective staining of hematological samples.

	packaging	product code
• Bio-Diff 3 reagent	100 mL	BD3-OT-100
• Bio-Diff 3 reagent	10x100 mL	BD3-OT-110
• Bio-Diff 3 reagent	500 mL	BD3-OT-500
• Bio-Diff 3 reagent	1000 mL	BD3-OT-1L





## BIO-DIFF 3 RTU REAGENT

Blue component of Bio-Diff RTU (Ready-to-Use) kit

Buffered aqueous solution of Methylene Blue and azure dyes of optimal concentration and composition for fast and effective staining of hematological samples.

	packaging	product code
<ul style="list-style-type: none"> <li>Bio-Diff 3 RTU reagent</li> </ul>	100 mL	BD3-RTU

## BRILLIANT CRESYL BLUE, SOLUTION

Solution for staining reticulocytes in blood

Brilliant Cresyl Blue solution is used for microscopical analysis of reticulocytes, i.e. juvenile red blood cells in peripheral blood. This is one of the most commonly used methods used in diagnostic hematology.

	packaging	product code
<ul style="list-style-type: none"> <li>Brilliant Cresyl Blue, solution</li> </ul>	100 mL	BCB-OT-100
<ul style="list-style-type: none"> <li>Brilliant Cresyl Blue, solution</li> </ul>	1000 mL	BCB-OT-1L

## HAYEM'S SOLUTION

Solution for manual counting of erythrocytes

Hayem's solution is used in routine method of counting erythrocytes. It is important to properly prepare and dilute the blood sample in a specific volume.

	packaging	product code
<ul style="list-style-type: none"> <li>Hayem's solution</li> </ul>	100 mL	HY-OT-100
<ul style="list-style-type: none"> <li>Hayem's solution</li> </ul>	10x100 mL	HY-OT-110
<ul style="list-style-type: none"> <li>Hayem's solution</li> </ul>	500 mL	HY-OT-500

## LEISHMAN'S SOLUTION

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes

For staining in hematology and clinical cytology

Leishman's solution is used for demonstration of nuclear and/or cytoplasmic morphology of platelets, erythrocytes, lymphocytes in blood smears or bone marrow aspirate and for staining cytological smears.

	packaging	product code
<ul style="list-style-type: none"> <li>Leishman's solution</li> </ul>	100 mL	LE-OT-100
<ul style="list-style-type: none"> <li>Leishman's solution</li> </ul>	10x100 mL	LE-OT-110
<ul style="list-style-type: none"> <li>Leishman's solution</li> </ul>	500 mL	LE-OT-500
<ul style="list-style-type: none"> <li>Leishman's solution</li> </ul>	1000 mL	LE-OT-1L

## TUERK'S SOLUTION

Solution for manual counting of leukocytes

Used in the method for counting leukocytes. It is important to properly prepare and dilute the blood sample. Acetic acid in Tuerk's solution causes hemolysis of erythrocytes and facilitates the staining of leukocytes.

	packaging	product code
<ul style="list-style-type: none"> <li>Tuerk's solution</li> </ul>	100 mL	TU-OT-100
<ul style="list-style-type: none"> <li>Tuerk's solution</li> </ul>	10x100 mL	TU-OT-110
<ul style="list-style-type: none"> <li>Tuerk's solution</li> </ul>	500 mL	TU-OT-500

## MAY-GRUENWALD SOLUTION

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes

For staining in hematology, cytology and staining sections of hematopoietic organs in histopathology

May-Gruenwald solution is used for staining bone marrow and peripheral blood smears. One of the most popular methods in which the May-Gruenwald solution is used in combination with Giemsa solution in May-Gruenwald-Giemsa (MGG) method according to Pappenheim. It is recommended to use buffer solution (pH 6.8) when using the Pappenheim method in order to achieve consistent and reliable staining results (range of hues).

	packaging	product code
• May-Gruenwald solution	100 mL	MG-OT-100
• May-Gruenwald solution	10x100 mL	MG-OT-110
• May-Gruenwald solution	500 mL	MG-OT-500
• May-Gruenwald solution	1000 mL	MG-OT-1L
• May-Gruenwald solution	2500 mL	MG-OT-2.5L

## GIEMSA SOLUTION

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes

For use in hematology, cytology and staining samples of sections of hematopoietic organs in histopathology

Giemsa solution is used for differentiation between nuclear and/or cytoplasmic morphology of blood cells and blood parasites. One of the most popular methods in which the Giemsa solution is used in combination with May-Gruenwald solution in the May-Gruenwald-Giemsa (MGG) method according to Pappenheim. It is recommended to use buffer solution (pH 6.8) during Pappenheim method to prepare working Giemsa solution, but also during section rinsing in order to secure consistency and reliability of the staining results (hues range).

	packaging	product code
• Giemsa solution	100 mL	GM-OT-100
• Giemsa solution	10x100 mL	GM-OT-110
• Giemsa solution	500 mL	GM-OT-500
• Giemsa solution	1000 mL	GM-OT-1L
• Giemsa solution	2500 mL	GM-OT-2.5L

## WRIGHT'S SOLUTION

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes

For staining in hematology, cytology and cytogenetics

Wright solution is used for differentiation between nuclear and/or cytoplasmic morphology of platelets, erythrocytes, lymphocytes in blood smears or bone marrow aspirate. It is also used in cytogenetics to detect chromosome aberrations and diagnose genetic syndromes.

	packaging	product code
• Wright's solution	100 mL	WR-OT-100
• Wright's solution	10x100 mL	WR-OT-110
• Wright's solution	500 mL	WR-OT-500
• Wright's solution	1000 mL	WR-OT-1L

## BUFFER TABLETS pH 6.8

Phosphate buffer tablets for preparing 100 liters of buffer solutions used in hematology and histology

One buffer tablet is sufficient for preparation of 1000 mL of phosphate buffer solution with stable pH 6.8, optimal buffer capacity, low temperature coefficients and minimal pH changes after solution dilution. It is recommended for use with May-Gruenwald Giemsa (Pappenheim) staining methods.

	packaging	product code
• Buffer tablets pH 6.8	100 pcs	PT-68-100

## BUFFER TABLETS pH 7.2

Phosphate buffer tablets for preparing 100 liters of buffer solutions used in hematology and histology

One buffer tablet is sufficient for preparation of 1000 mL of phosphate buffer solution with stable pH 7.2, optimal buffer capacity, low temperature coefficients and minimal pH changes after solution dilution. It is recommended for rapid samples staining with Bio-Diff and Bio-Diff RTU kits.

	packaging	product code
• Buffer tablets pH 7.2	100 pcs	PT-72-100

**Note:** pH value of 7.0 is achieved by dissolving 1 Buffer tablet pH 6.8 with 1 Buffer tablet pH 7.2 in two liters of distilled water.

# May-Gruenwald, Giemsa and Bio-Diff reagents

## STAINS USED IN HEMATOLOGY, CYTOLOGY AND HISTOLOGY

Romanowsky polychromatic stains are used in hematology for staining blood smears and bone marrow. Because of interaction between cationic (Methylene Blue, azure) and anionic dyes (Eosin Y), selective staining of nucleic acids and basic proteins occurs in distinctive hues.

Result of staining depends on a few factors: pH value of the working solution and buffer, fixating method and period of immersing. One of the most commonly known methods is according to Pappenheim, that is the May-Gruenwald Giemsa method that combines May-Gruenwald and Giemsa solutions and in turn the mixture stains cytological material (peripheral blood smears, cytodiagnostic puncture aspirates, and diarrhea or secretion sample cells) or hematopoietic organs smears. It is recommended to use buffer solution pH 6.8 for preparing working Giemsa solution and for rinsing the section while using Pappenheim staining method, while buffer solution pH 7.2 is recommended for rinsing sections with Bio-Diff and Bio-Diff RTU kits.

BioGnost also offers products for rapid diagnostics, such as Bio-Diff and Bio-Diff RTU kits that efficiently stain hematologic preparations in short periods of time and provide precise results of staining, such as results gained by using the May-Gruenwald Giemsa method. Each component of Bio-Diff and Bio-Diff RTU kits is specially stabilized and prepared according to the highest standards.

**GIEMSA SOLUTION** – polychromatic solution for staining in hematology, cytology and histopathology, specially stabilized to achieve prolonged shelf life, larger amount of staining capacity and lower level of sedimentation.

**MAY-GRUENWALD SOLUTION** – polychromatic, alcoholic solution for staining in hematology and cytology.

**BIO-DIFF KIT** – three-reagent kit for fast and efficient staining of hematological samples. Each kit contains buffer tablet pH 7.2 (for rinsing) in order to make the use easier, and results better and more precise.

**BIO-DIFF RTU KIT** – three-reagent kit for fast Ready-to-Use staining of hematological, but also cytological and histological sections. Reagents are contained within impermeable polypropylene containers used for direct immersion of the sections. The kit also contains a buffer tablet for preparation of buffer solution (for rinsing) (pH 7.2) in order to ensure permanent high quality, reliability and consistence of staining results.



# BioGram 4 kit

## FOUR-REAGENT KIT FOR IDENTIFICATION OF BACTERIA ACC. TO GRAM

BioGram 4 kit has properties that enable optimal staining of bacterial strains and provides balanced results. Differentiation staining of bacterial strains acc. to Gram is widely known and used microbiology method.

It is one of the most commonly used diagnostic methods in hospital and clinical laboratories, for differentiation between Gram-positive and Gram-negative bacteria.

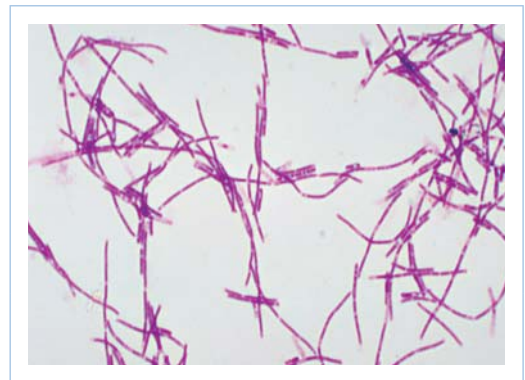
Gram-positive bacteria have thicker cell membrane. By treating it with iodine solution (i.e. forming insoluble iodine-primary stain complex), the membrane retains the dye inside the cell. Gram-negative bacteria have thinner membrane that cannot retain the dye (due to membrane structure), and it is washed through the membrane.

### Advantages of BioGnost's BioGram 4 kit

- Specially stabilized reagents
- Double amount of Gram Decolorizer solution
- Optimally nuanced counterstains
- Clear and sharp image

### Staining results

- Gram-positive bacteria - purple
- Gram-negative bacteria - red



### Packaging

BioGnost's BioGram 4 kit contains **four reagents in five packagings**: Gram Crystal Violet 1% solution, Gram Lugol solution (stabilized), two packagings of Gram Decolorizer (solution 2) and Gram Safranin solution





### BIOGRAM 4 KIT

Four-reagent kit for identification of bacteria acc. to Gram

For differentiation between Gram-positive and Gram-negative bacteria

This method allows differentiation between Gram-positive and Gram-negative bacteria based on structure of bacterial cell wall. Contains double amount of Gram Decolorizer solution.

	packaging	product code
• BioGram 4 kit	for 100 tests	BGR4-100T
• BioGram 4 kit	5x100 mL	BGR4-K-100
• BioGram 4 kit	5x250 mL	BGR4-K-250
• BioGram 4 kit	5x500 mL	BGR4-K-500

## Reagents

### CARBOL FUCHSIN GRAM 10X CONCENTRATED

Concentrated solution of Carbol Fuchsin for preparation of counterstain solution for staining acc. to Gram

Carbol Fuchsin Gram 10X concentrated is used in microbacterial staining method according to Gram. Concentrated solution volume should be diluted with 9 volumes of distilled water before use (1+9 dilution). It functions as counterstain for bacteria that have not retained their primary dye, i.e.

Gram negative bacteria.

	packaging	product code
• Carbol Fuchsin Gram 10X concentrated	100 mL	CFG-OT-100
• Carbol Fuchsin Gram 10X concentrated	500 mL	CFG-OT-500
• Carbol Fuchsin Gram 10X concentrated	1000 mL	CFG-OT-1L

### GRAM CRYSTAL VIOLET 1% SOLUTION

For use in BioGram 4 kit for bacterial staining acc. to Gram

Primary stain solution in the process of differentiation between bacteria according to Gram. Combined effect of the primary stain and iodine solution along with the characteristics of bacterial cell wall allows the staining of Gram-positive bacteria. Component of the BioGram 4 kit.

	packaging	product code
• Gram Crystal Violet 1% solution	100 mL	GC1-OT-100
• Gram Crystal Violet 1% solution	10x100 mL	GC1-OT-110
• Gram Crystal Violet 1% solution	250 mL	GC1-OT-250
• Gram Crystal Violet 1% solution	500 mL	GC1-OT-500

### GRAM DECOLORIZER SOLUTION 1

For bacterial staining acc. to Gram

Slow acting decolorizer. Contains ethanol and acetone. Used in kits that contain nonstabilized iodine solution.

	packaging	product code
• Gram Decolorizer solution 1	100 mL	GD1-OT-100
• Gram Decolorizer solution 1	10x100 mL	GD1-OT-110
• Gram Decolorizer solution 1	250 mL	GD1-OT-250
• Gram Decolorizer solution 1	500 mL	GD1-OT-500

### GRAM DECOLORIZER SOLUTION 2

For bacterial staining acc. to Gram

Medium speed decolorizer. Contains ethanol and acetone. Integral part of BioGram 4 kit. Used in kits that contain stabilized iodine solution (PVP-I).

	packaging	product code
• Gram Decolorizer solution 2	100 mL	GD2-OT-100
• Gram Decolorizer solution 2	10x100 mL	GD2-OT-110
• Gram Decolorizer solution 2	250 mL	GD2-OT-250
• Gram Decolorizer solution 2	500 mL	GD2-OT-500

### GRAM DECOLORIZER SOLUTION 3

For bacterial staining acc. to Gram

Fast acting decolorizer. Contains ethanol and acetone. Used when quick action is needed, especially in use with staining machine.

	packaging	product code
• Gram Decolorizer solution 3	100 mL	GD3-OT-100
• Gram Decolorizer solution 3	10x100 mL	GD3-OT-110
• Gram Decolorizer solution 3	250 mL	GD3-OT-250
• Gram Decolorizer solution 3	500 mL	GD3-OT-500

## GRAM LUGOL SOLUTION

For bacterial staining acc. to Gram

Facilitates the penetration of the primary stain into the bacterial cell and participates in the formation of primary stain/iodine complex. Classic formulation of the iodine solution used in bacterial staining according to Gram.

	packaging	product code
• Gram Lugol solution	100 mL	GL-OT-100
• Gram Lugol solution	10x100 mL	GL-OT-110
• Gram Lugol solution	250 mL	GL-OT-250
• Gram Lugol solution	500 mL	GL-OT-500

## GRAM LUGOL SOLUTION, STABILIZED

For bacterial staining acc. to Gram

Facilitates the penetration of the primary stain into the bacterial cell and participates in the formation of primary stain/iodine complex. Contains polyvinyl pyrrolidone iodine (PVP-I). Component of BioGram 4 kit.

	packaging	product code
• Gram Lugol solution, stabilized	100 mL	GLS-OT-100
• Gram Lugol solution, stabilized	10x100 mL	GLS-OT-110
• Gram Lugol solution, stabilized	250 mL	GLS-OT-250
• Gram Lugol solution, stabilized	500 mL	GLS-OT-500

## GRAM SAFRANIN SOLUTION

For use in BioGram 4 kit for bacterial staining Gram-negative bacteria

Counterstain solution used for staining of Gram-negative bacteria. Component of BioGram 4 kit.

	packaging	product code
• Gram Safranin solution	100 mL	GSF-OT-100
• Gram Safranin solution	10x100 mL	GSF-OT-110
• Gram Safranin solution	250 mL	GSF-OT-250
• Gram Safranin solution	500 mL	GSF-OT-500

## LUGOL'S SOLUTION (SCHILLER'S TEST)

Classic formulation of aqueous solution of iodine and potassium iodide

Lugol's solution has a very wide range of application. Used in gynecology, also as an antiseptic, disinfectant and a starch indicator. The classic formulation of Lugol's solution has concentration 3 times higher than the Gram Lugol solution.

	packaging	product code
• Lugol's solution (Schiller's test)	100 mL	LUG-OT-100
• Lugol's solution (Schiller's test)	10x100 mL	LUG-OT-110
• Lugol's solution (Schiller's test)	250 mL	LUG-OT-250
• Lugol's solution (Schiller's test)	500 mL	LUG-OT-500

## LUGOL'S C SOLUTION

Aqueous solution of iodine and potassium iodide, enhanced formulation

Lugol's C solution is an enhanced formulation for even stronger staining (compared to classic Lugol's solution).

	packaging	product code
• Lugol's C solution	100 mL	LUGC-OT-100
• Lugol's C solution	10x100 mL	LUGC-OT-110
• Lugol's C solution	250 mL	LUGC-OT-250
• Lugol's C solution	500 mL	LUGC-OT-500

## SAFRANIN O 5X CONCENTRATED

Concentrated solution of Safranin O dye for preparing contrast solution for staining acc. to Gram

Concentrated solution of Safranin O dye is primarily intended for use in Gram bacterial staining. Concentrated solution volume should be diluted with 4 volumes of distilled water before use (1+4 dilution). It may be used in histology and cytology for nuclear staining, staining cartilage, mucins, and mastocyte granules.

	packaging	product code
• Safranin O 5X concentrated	100 mL	SO05X-OT-100
• Safranin O 5X concentrated	500 mL	SO05X-OT-500
• Safranin O 5X concentrated	1000 mL	SO05X-OT-1L

# TB-Stain Hot kit

THREE-REAGENT KIT FOR STAINING  
ACID-FAST BACTERIA ACC. TO ZIEHL-NEELSEN

The best known and most widespread method for detecting the presence of tuberculosis bacteria is staining acc. to Ziehl-Neelsen.

Many bacterial cells are easily stained using simple dyes or Gram staining. However, certain bacterial strains, such as Mycobacteria and Nocardia cannot be stained using simple dyes; if stained, the results may vary greatly.

The Ziehl-Neelsen method uses Carbol fuchsin dye, acid alcohol as decolorizing agent and Methylene blue solution as counterstain.

## Advantages of BioGnost's TB-Stain Hot kit

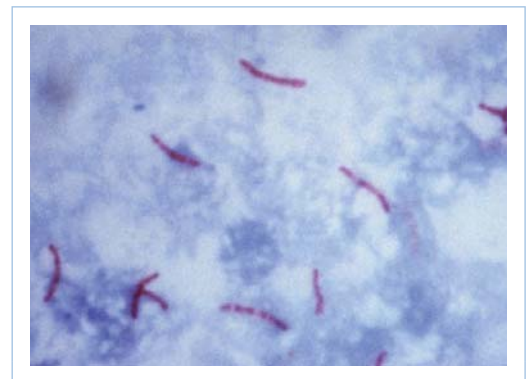
- Stabilized reagents
- Double amount of TB Decolorizer
- Clear and sharp image

## Staining results

- Red - acid-fast bacteria
- Blue - background

## Packaging

BioGnost's TB-Stain Hot kit contains TB Carbol fuchsin reagent, Methylene blue Loeffler reagent and two packagings of TB Decolorizers.



# Staining solutions for bacteriology

## Acid-fast bacteria staining

### TB-STAIN HOT KIT

Three-reagent kit for staining acid-fast bacteria acc. to Ziehl-Neelsen

Most widely known and used method of detecting TB bacteria is staining according to Ziehl-Neelsen that requires heating the section during staining. The primary stain of TB Carbol Fuchsin reagent is Carbol Fuchsin, while the secondary, blue counterstain is Methylene Blue (Methylene Blue Loeffler reagent). The kit contains double amount of TB Decolorizer.

	packaging	product code
• TB-Stain Hot kit	for 100 tests	TBH-100T
• TB-Stain Hot kit	4x100 mL	TBH-K-100
• TB-Stain Hot kit	4x250 mL	TBH-K-250
• TB-Stain Hot kit	4x500 mL	TBH-K-500

### TB-STAIN FLUORESCENCE KIT

Three-reagent kit

For fluorescence staining of acid-fast bacteria

Kit for fluorescence staining of acid-fast bacteria; the method does not require section heating during staining. Fluorescence has been used for many years for detecting the presence of acid-fast bacteria, it is more sensitive than the Kinyoun method and it takes less time to interpret the results. The kit contains double amount of TB Decolorizer Fluorescent.

	packaging	product code
• TB-Stain Fluorescence kit	for 100 tests	TBF-100T
• TB-Stain Fluorescence kit	4x100 mL	TBF-K-100
• TB-Stain Fluorescence kit	4x250 mL	TBF-K-250
• TB-Stain Fluorescence kit	4x500 mL	TBF-K-500

### TB-STAIN COLD KIT

Three-reagent kit

For staining acid-fast bacteria acc. to Kinyoun

TB-Stain Cold kit is used for staining according to modified Ziehl-Neelsen (Kinyoun) method for detection of TB bacteria which does not require heating the section during staining. The primary stain of TB Carbol Fuchsin reagent is Carbol Fuchsin, while the secondary, counterstain is Malachite Green (TB Malachite Green reagent). The kit contains double amount of TB Decolorizer.

	packaging	product code
• TB-Stain Cold kit	for 100 tests	TBC-100T
• TB-Stain Cold kit	4x100 mL	TBC-K-100
• TB-Stain Cold kit	4x250 mL	TBC-K-250
• TB-Stain Cold kit	4x500 mL	TBC-K-500



### GABBETT REAGENT

Blue counterstain for staining acid-fast bacteria acc. to modified Kinyoun method

Gabbett reagent is sometimes used instead of contrasting TB Malachite Green reagent during staining acid-fast bacteria according to modified Kinyoun method. Instead of green Malachite Green stain, Gabbett reagent contains blue Methylene Blue stain.

	packaging	product code
• Gabbett reagent	100 mL	GAB-OT-100
• Gabbett reagent	250 mL	GAB-OT-250
• Gabbett reagent	500 mL	GAB-OT-500
• Gabbett reagent	1000 mL	GAB-OT-1L

### METHYLENE BLUE 10X CONCENTRATED

Methylene Blue concentrated solution for use in microbiology

Methylene Blue 10X concentrated is used as a blue counterstain in Gram staining acc. to Ziehl-Neelsen method. Concentrated solution volume should be diluted with 9 volumes of distilled water before use (1+9 dilution).

	packaging	product code
• Methylene Blue 10X concentrated	100 mL	MB10X-OT-100
• Methylene Blue 10X concentrated	250 mL	MB10X-OT-250
• Methylene Blue 10X concentrated	500 mL	MB10X-OT-500

### METHYLENE BLUE LOEFFLER'S REAGENT

Counterstain for use in microbiology and histology

Methylene Blue solution used in staining acid-fast bacteria according to Ziehl-Neelsen. Methylene Blue Loeffler's solution can also be used in other histological and microbiological procedures.

Component of TB-Stain Hot kit.

	packaging	product code
• Methylene Blue Loeffler's reagent	100 mL	MBL-OT-100
• Methylene Blue Loeffler's reagent	10x100 mL	MBL-OT-110
• Methylene Blue Loeffler's reagent	250 mL	MBL-OT-250
• Methylene Blue Loeffler's reagent	500 mL	MBL-OT-500

### TB CARBOL FUCHSIN REAGENT

For use in TB-Stain Hot and TB-Stain Cold kits

Primary stain solution in for identification of acid-fast bacteria according to Ziehl-Neelsen. Integral part of TB-Stain Hot and TB-Stain Cold kits.

	packaging	product code
• TB Carbol Fuchsin reagent	100 mL	TBC-OT-100
• TB Carbol Fuchsin reagent	10x100 mL	TBC-OT-110
• TB Carbol Fuchsin reagent	250 mL	TBC-OT-250
• TB Carbol Fuchsin reagent	500 mL	TBC-OT-500

### TB DECOLORIZER

For use in TB-Stain Hot and TB-Stain Cold kits

Decolorizer for use in Ziehl-Neelsen method for acid-fast bacteria identification. Component of TB-Stain Hot and TB-Stain Cold kits.

	packaging	product code
• TB Decolorizer	100 mL	TBD-OT-100
• TB Decolorizer	10x100 mL	TBD-OT-110
• TB Decolorizer	250 mL	TBD-OT-250
• TB Decolorizer	500 mL	TBD-OT-500

### TB MALACHITE GREEN REAGENT

For staining acid-fast bacteria using TB-Stain Cold kit

Green counterstain for identification of acid-fast bacteria. Used as substitute for Methylene Blue Loeffler reagent in the TB-Stain Hot kit. Component of TB-Stain Cold kit.

	packaging	product code
• TB Malachite Green reagent	100 mL	TBM-OT-100
• TB Malachite Green reagent	10x100 mL	TBM-OT-110
• TB Malachite Green reagent	250 mL	TBM-OT-250
• TB Malachite Green reagent	500 mL	TBM-OT-500

## TB AURAMINE-RHODAMINE REAGENT

For use in TB-Stain Fluorescence kit

Primary stain for identification of acid-fast bacteria using the fluorescence method.	packaging	product code
• TB Auramine-Rhodamine reagent	100 mL	TBA-OT-100
• TB Auramine-Rhodamine reagent	10x100 mL	TBA-OT-110
• TB Auramine-Rhodamine reagent	250 mL	TBA-OT-250
• TB Auramine-Rhodamine reagent	500 mL	TBA-OT-500

## TB DECOLORIZER FLUORESCENT

For use in TB-Stain Fluorescence kit

Decolorizer used in fluorescence staining for identification of acid-fast bacteria.	packaging	product code
• TB Decolorizer Fluorescent	100 mL	TBF-OT-100
• TB Decolorizer Fluorescent	10x100 mL	TBF-OT-110
• TB Decolorizer Fluorescent	250 mL	TBF-OT-250
• TB Decolorizer Fluorescent	500 mL	TBF-OT-500

## TB PERMANGANATE REAGENT

For use in TB-Stain Fluorescence kit

Counterstain used in fluorescence staining method for identification of acid-fast bacteria.	packaging	product code
• TB Permanganate reagent	100 mL	TBP-OT-100
• TB Permanganate reagent	10x100 mL	TBP-OT-110
• TB Permanganate reagent	250 mL	TBP-OT-250
• TB Permanganate reagent	500 mL	TBP-OT-500

## Fungal stains

### LACTOPHENOL BLUE SOLUTION

Blue solution for use in microbiology for staining and analysis of fungi

One of the most commonly used reagents as a part of standard procedures for microscopic analysis of fungi.

	packaging	product code
• Lactophenol Blue solution	100 mL	LPB-OT-100
• Lactophenol Blue solution	250 mL	LPB-OT-250

### LACTOPHENOL SOLUTION

Colorless solution for use in microbiology and analysis of fungi

One of the most commonly used reagents as a part of standard procedures for microscopic analysis of fungi. Without added blue dye.

	packaging	product code
• Lactophenol solution	100 mL	LP-OT-100
• Lactophenol solution	250 mL	LP-OT-250

## A.F.O.G. KIT

Acid Fuchsin Orange G kit for staining glomerular protein deposits in kidney biopsies

Along with the P.A.S.M. kit, the A.F.O.G. kit is used for staining kidney biopsies. Used for selective staining of collagen and glomerular protein deposits.

	packaging	product code
<ul style="list-style-type: none"> <li>A.F.O.G. kit</li> <li>A.F.O.G. kit</li> </ul>	for 100 tests 6x100 mL	AFOG-100T AFOG-K-100

## ALCIAN BLUE - P.A.S. KIT

Alcian Blue - Periodic Acid-Schiff acid mucopolysaccharides staining kit acc. to Mowry

Enables differentiation between acid mucins (stained light blue) and neutral mucins and glycogens (stained red).

	packaging	product code
<ul style="list-style-type: none"> <li>Alcian Blue - P.A.S. kit</li> <li>Alcian Blue - P.A.S. kit</li> <li>Alcian Blue - P.A.S. kit</li> </ul>	for 100 tests 7x100 mL 7x500 mL	AB-100T AB-K-100 AB-K-500

## ALCIAN BLUE pH 2.5 KIT

Three-reagent kit for staining mucins acc. to Dorling

Alcian Blue pH 2.5 kit stains acid mucins; it does not stain sulfated mucins. Rinsing solution has the same pH value as the primary stain which enhances specificity of the reaction.

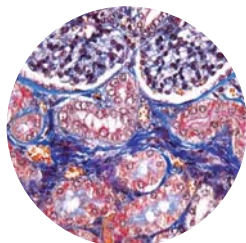
	packaging	product number
<ul style="list-style-type: none"> <li>Alcian Blue pH 2.5 kit</li> <li>Alcian Blue pH 2.5 kit</li> </ul>	for 100 tests 3x100 mL	AB25-100T AB25-K-100

## AZAN TRICHOME KIT

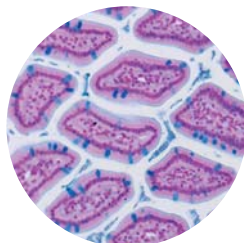
Five-reagent kit for connective tissue staining (acc. to Mallory)

Azan Trichrome kit is a modified Mallory Trichrome kit for staining connective tissues. Used for visualization of muscle fibers, collagen, glial cells, glomerular cells and erythrocytes from the same sample.

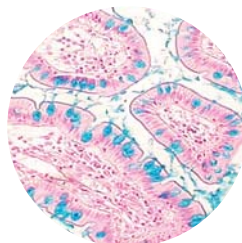
	packaging	product code
<ul style="list-style-type: none"> <li>Azan Trichrome kit</li> <li>Azan Trichrome kit</li> </ul>	for 100 tests 5x100 mL	AZT-100T AZT-K-100



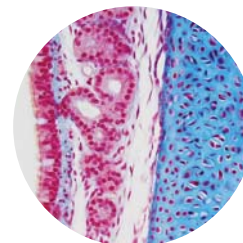
A.F.O.G. KIT



ALCIAN BLUE - P.A.S. KIT



ALCIAN BLUE pH 2.5 KIT



AZAN TRICHOME KIT

## Classification of special stains kits according to use

<p><b>CONNECTIVE TISSUE</b></p> <ul style="list-style-type: none"> <li>A.F.O.G. kit</li> <li>Azan Trichrome kit</li> <li>Gomori Trichrome kit</li> <li>Hematoxylin P.T.A kit</li> <li>Hematoxylin W kit</li> <li>Mallory Trichrome kit</li> <li>Masson Trichrome kit</li> <li>Masson-Goldner Trichrome kit</li> </ul>	<ul style="list-style-type: none"> <li>Paraldehyde Fuchsin kit</li> <li>P.A.S.M. kit</li> <li>Reticulin kit</li> <li>Reticulin Contrast kit</li> <li>Van Gieson Trichrome kit</li> <li>Weigert-Van Gieson kit, rapid method</li> <li>Weigert-Van Gieson kit, standard method</li> </ul>	<p><b>CARBOHYDRATES</b></p> <ul style="list-style-type: none"> <li>Alcian Blue - P.A.S. kit</li> <li>Alcian Blue pH 2.5 kit</li> <li>Congo Red Highman kit</li> <li>Mucicarmine kit</li> </ul>
<p><b>PIGMENTS AND MINERAL FORMATIONS</b></p> <ul style="list-style-type: none"> <li>Fouchet-Van Gieson kit</li> <li>HemoGnost Perls kit</li> <li>Masson Fontana kit</li> <li>Rhodanine kit</li> <li>Von Kossa kit</li> </ul>	<p><b>CYTOLOGY</b></p> <ul style="list-style-type: none"> <li>Bio-Diff RTU kit</li> <li>Eosin and nigrosine vital kit</li> <li>Eosin-nigrosine vital</li> <li>Sudan Black B kit</li> <li>UriGnost S kit</li> <li>UriGnost SM kit</li> </ul>	<p><b>CENTRAL NERVOUS SYSTEM</b></p> <ul style="list-style-type: none"> <li>Luxol Fast Blue kit</li> </ul> <p><b>LIPIDS</b></p> <ul style="list-style-type: none"> <li>Oil Red O kit</li> <li>Sudan Black B Lipid kit</li> </ul>
		<p><b>CRYOSTAT</b></p> <ul style="list-style-type: none"> <li>Gomori Trichrome kit</li> <li>Oil Red O kit</li> <li>Sudan Black B lipid kit</li> </ul>
		<p><b>NUCLEI AND NUCLEIC ACIDS</b></p> <ul style="list-style-type: none"> <li>Feulgen kit</li> </ul>

## BIO-DIFF RTU KIT

Three-reagent kit for Ready-to-Use staining

Contains fixative agent, and red and blue components for fast and effective staining

Bio-Diff RTU kit enables fast, simple and practical staining of hematological, parasitological, microbiological, histological, and cytological sections (such as semen smears) according to May-Gruenwald Giemsa staining. The reagents are stored in impermeable polypropylene jars that samples can be dipped into. The kit also contains buffer tablet for preparing pH 7.2 buffer solution that provides consistent staining results.

	packaging	product code
<ul style="list-style-type: none"> <li>Bio-Diff RTU kit</li> </ul>	3x100 mL	BD-RTU-100

## CONGO RED HIGHMAN KIT

Three-reagent kit for staining amyloids

Staining according to Highman is characteristic for use of alkaline solution as differentiation medium in order to avoid undesirable non-specific coloration of cellular substances. The specificity of staining with Congo Red Highman kit is dichromacy – amyloid deposits display green coloration under polarized light.

	packaging	product code
<ul style="list-style-type: none"> <li>Congo Red Highman kit</li> <li>Congo Red Highman kit</li> </ul>	for 100 tests 3x100 mL	CR-100T CR-K-100

## EOSIN AND NIGROSIN VITAL KIT

Kit containing separate dyes for rapid detection of sperm vitality

Eosin-nigrosin vital kit enables rapid and simple visualization of dead and living sperm cells. During staining of the sample, Eosin Y enters the dead (or damaged) sperm cells, while the living cells remain non-dyed. Nigrosin dye provides dark contrast on the section for clearer and better visualization of the living, non-dyed sperm cells.

	packaging	product code
<ul style="list-style-type: none"> <li>Eozin and nigrosin vital kit</li> </ul>	2x30mL	ENVK-K-30

## EOSIN-NIGROSIN VITAL

Fast detection of sperm vitality with one reagent

Eosin-nigrosin vital enables extremely fast (in one step) and simple visualization of dead and living sperm cells. It contains Eosin Y and nigrosin dyes in one reagent. During sample staining Eosin Y enters dead (damaged) sperm cells, while the living cells remain non-dyed. Nigrosin dye provides dark contrast on the section for a clearer and better visualization of the living, non-dyed sperm cells.

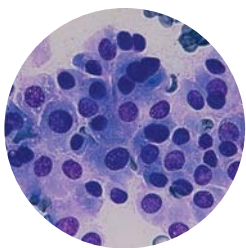
	packaging	product code
<ul style="list-style-type: none"> <li>Eosin-nigrosin vital</li> </ul>	30 mL	ENV-30

## FEULGEN KIT

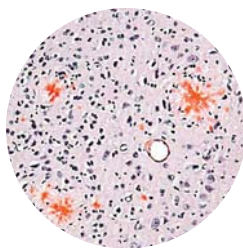
Three-reagent DNA staining kit according to Feulgen

Feulgen reaction is one of the most commonly used methods in cytochemistry. For use in semiquantitative DNA determination in histological and cytological samples.

	packaging	product code
<ul style="list-style-type: none"> <li>Feulgen kit</li> <li>Feulgen kit</li> </ul>	for 100 tests 5x100 mL	FE-100T FE-K-100



BIO-DIFF RTU KIT



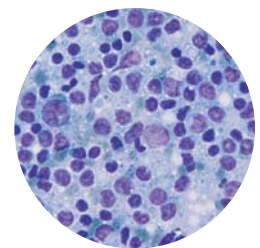
CONGO RED HIGHMAN KIT



EOSIN - NIGROSIN VITAL KIT



EOSIN-NIGROSIN VITAL



FEULGEN KIT



## FOUCHET-VAN GIESON KIT

Three-reagent kit for visualization of bilirubin and collagen

Kit for detecting bilirubin and collagen in tissue sections according to Kutlick.

	packaging	product code
<ul style="list-style-type: none"> <li>Fouchet-Van Gieson kit</li> </ul>	for 100 tests	FVG-100T
<ul style="list-style-type: none"> <li>Fouchet-Van Gieson kit</li> </ul>	3x100 mL	FVG-K-100

## GOMORI TRICHROME KIT

Five-reagent muscle and collagen fiber staining kit

Enables easier collagen fiber analysis in liver and kidneys as well as differentiation between collagen and smooth muscle fibers.

	packaging	product code
<ul style="list-style-type: none"> <li>Gomori Trichrome kit</li> </ul>	for 100 tests	GT-100T
<ul style="list-style-type: none"> <li>Gomori Trichrome kit</li> </ul>	5x100 mL	GT-K-100

## GROCOTT KIT

Six-reagent kit for staining fungi

Grocott kit is used for visualization of fungi and histological argentaffin structures in general (such as basal membranes). Gold chloride and sodium thiosulfate solutions additionally enhance the section's coloration and remove non-specific background coloration, while the green counterstain provides clear and visually rich contrast to target structures stained black.

	packaging	product code
<ul style="list-style-type: none"> <li>Grocott kit</li> </ul>	for 100 tests	GRC-100T

\* contact us for larger packaging

## H.B.F.P. KIT

Hematoxylin - Basic Fuchsin - Picric acid myocardial infarction staining kit for histological preparations

Kit used for staining histological preparations used for early detection of cardiac muscle changes after ischemia or myocardial infarction.

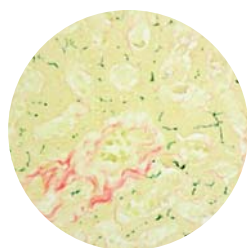
	packaging	product code
<ul style="list-style-type: none"> <li>H.B.F.P. kit</li> </ul>	for 100 tests	HBFP-100T
<ul style="list-style-type: none"> <li>H.B.F.P. kit</li> </ul>	3x100 mL	HBFP-K-100

## HEMATOXYLIN P.T.A. KIT

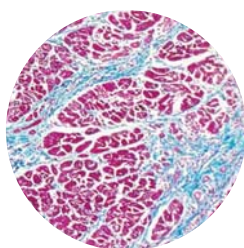
Hematoxylin Phosphotungstic Acid kit for differentiating muscle tissues acc. to Mallory

Hematoxylin P.T.A. kit is used for differentiating between smooth and striated muscle tissues, as well as for detecting fibrins, collagens and elements of central nervous system.

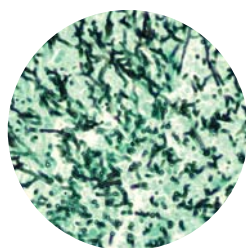
	packaging	product code
<ul style="list-style-type: none"> <li>Hematoxylin P.T.A. kit</li> </ul>	for 100 tests	HPTA-100T
<ul style="list-style-type: none"> <li>Hematoxylin P.T.A. kit</li> </ul>	4x100 mL	HPTA-K-100
<ul style="list-style-type: none"> <li>Hematoxylin P.T.A. kit</li> </ul>	4x500 mL	HPTA-K-500



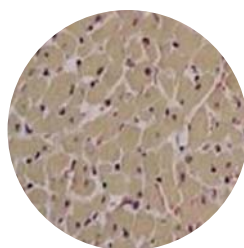
FOUCHET-VAN GIESON KIT



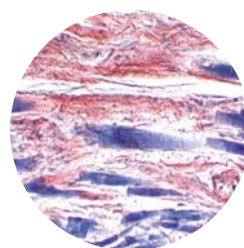
GOMORI TRICHROME KIT



GROCOTT KIT



H.B.F.P. KIT



HEMATOXYLIN P.T.A. KIT

## HEMATOXYLIN W KIT

Hematoxylin acc. to Weigert

Kit contains two reagents, stains the nuclei blue-black

Weigert acid-resistant hematoxylin formulation is not washed out in acid solutions. It is often a component of special staining kits for staining connective tissues.

	packaging	product code
• Hematoxylin W kit	for 100 tests	HEMW-100T
• Hematoxylin W kit	2x100 mL	HEMW-K-100
• Hematoxylin W kit	2x500 mL	HEMW-K-500
• Hematoxylin W kit	2x1000 mL	HEMW-K-1L

## HEMOGNOST PERLS KIT

HemoGnost Perls (Prussian blue/Berlin blue) kit for the detection of free ferric ( $Fe^{3+}$ ) ions in cells

Perls method is used for detection of free ferric ions in cells (not bound to hemoglobin) and is often applied on bone marrow and spleen cells.

	packaging	product code
• HemoGnost Perls kit	for 100 tests	HP-100T
• HemoGnost Perls kit	3x250 mL	HP-K-250
• HemoGnost Perls kit	3x500 mL	HP-K-500

## LUXOL FAST BLUE KIT

Four-reagent kit for staining myelins and phospholipids acc. to Kluver-Barerra

Luxol Fast Blue kit is used for staining myelins and visualizing basic structure of brain and brain stem tissues.

	packaging	product code
• Luxol Fast Blue kit	for 100 tests	LFB-100T
• Luxol Fast Blue kit	4x250 mL	LFB-K-250

## MALLORY TRICHROME KIT

Three-reagent muscle and collagen fiber staining kit

Standard method for connective tissue visualization and detection of collagen, cartilage, muscle and erythrocyte detection.

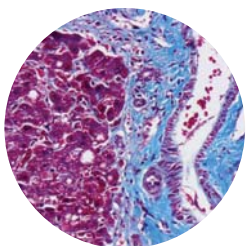
	packaging	product code
• Mallory Trichrome kit	for 100 tests	MT-100T
• Mallory Trichrome kit	3x100 mL	MT-K-100

## MASSON FONTANA KIT

Six-reagent melanine and argentaffin granule staining kit

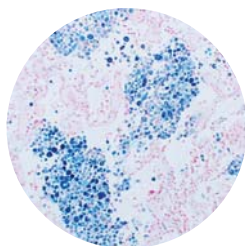
Specific method for detecting melanine and argentaffin granules in histological sections, based on the reduction of silver nitrate to elemental silver.

	packaging	product code
• Masson Fontana kit	for 100 tests	MF-100T
• Masson Fontana kit	6x100 mL	MF-K-100

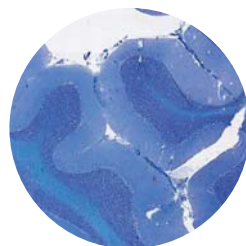


HEMATOXYLIN W KIT

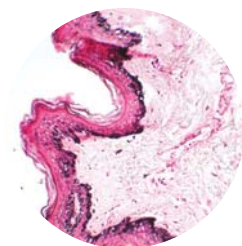
\*Gomori Trichrome staining with Aniline Blue dye and Weigert hematoxylin



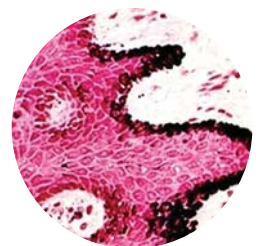
HEMOGNOST PERLS KIT



LUXOL FAST BLUE KIT



MALLORY TRICHROME KIT



MASSON FONTANA KIT

## MASSON TRICHROME KIT

Seven-reagent kit for staining muscle and collagen fibers with blue counterstain

Muscle and collagen fibers staining method that makes Aniline Blue dye bind to collagen and providing characteristic blue counterstain. It is also used for visualizing gametes, nuclei, neurofibrils, glial cells, keratins, and intercellular fibrils.

	packaging	product code
<ul style="list-style-type: none"> <li>• Masson Trichrome kit</li> </ul>	for 100 tests	MST-100T
<ul style="list-style-type: none"> <li>• Masson Trichrome kit</li> </ul>	7x100 mL	MST-K-100
<ul style="list-style-type: none"> <li>• Masson Trichrome kit</li> </ul>	7x500 mL	MST-K-500

## MASSON-GOLDNER TRICHROME KIT

Seven-reagent kit for staining muscle and collagen fibers with green counterstain

Muscle and collagen fibers staining method that makes green contrast dye bind to collagen making it characteristically green. It is also used for visualizing gametes, nuclei, neurofibrils, glial cells, keratins, and intercellular fibrils.

	packaging	product code
<ul style="list-style-type: none"> <li>• Masson-Goldner Trichrome kit</li> </ul>	for 100 tests	MGT-100T
<ul style="list-style-type: none"> <li>• Masson-Goldner Trichrome kit</li> </ul>	7x100 mL	MGT-K-100
<ul style="list-style-type: none"> <li>• Masson-Goldner Trichrome kit</li> </ul>	7x500 mL	MGT-K-500

## MUCICARMINE KIT

Four-reagent kit for detecting acid mucopolysaccharides acc. to Mayer

Mucicarmine kit is used for detecting mucins (acid mucopolysaccharides) in histological samples.

	packaging	product code
<ul style="list-style-type: none"> <li>• Mucicarmine kit</li> </ul>	for 100 tests	MUC-100T
<ul style="list-style-type: none"> <li>• Mucicarmine kit</li> </ul>	4x100 mL	MUC-K-100

## OIL RED O KIT

Three-reagent kit for staining fat cells and neutral fats acc. to Johnson

Oil Red O kit is used for detecting fat cells and neutral fats, and can also be used with frozen tissues and fresh smears.

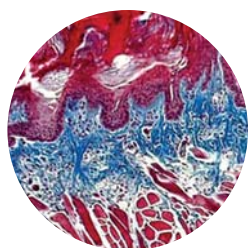
	packaging	product code
<ul style="list-style-type: none"> <li>• Oil Red O kit</li> </ul>	for 100 tests	ORO-100T
<ul style="list-style-type: none"> <li>• Oil Red O kit</li> </ul>	3x100 mL	ORO-K-100

## ORCEIN KIT

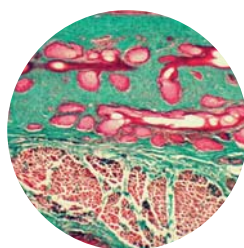
Kit for visualization of surface hepatitis B (HBsAg) antigens, elastic fibers and protein complexes with copper

Orcein kit is used for identification of inclusions of surface hepatitis B (HBsAg) antigens, elastic fibers and protein complexes with copper. It may be used with sections embedded in paraffin, but also with frozen sections.

	packaging	product code
<ul style="list-style-type: none"> <li>• Orcein kit</li> </ul>	for 100 tests	ORC-100T
<ul style="list-style-type: none"> <li>• Orcein kit</li> </ul>	5x250 mL	ORC-K-250



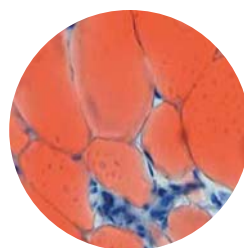
MASSON TRICHROME KIT



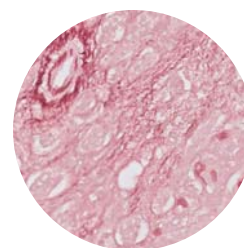
MASSON-GOLDNER TRICHROME KIT



MUCICARMINE KIT



OIL RED O KIT



ORCEIN KIT

# P.A.S. kit

## FIVE-REAGENT KIT FOR STAINING ALDEHYDES, MUCOPOLYSACCHARIDES AND MUCOPROTEINS

One of the most widely used chemical methods in histology.  
Usually used on liver and muscle cells.

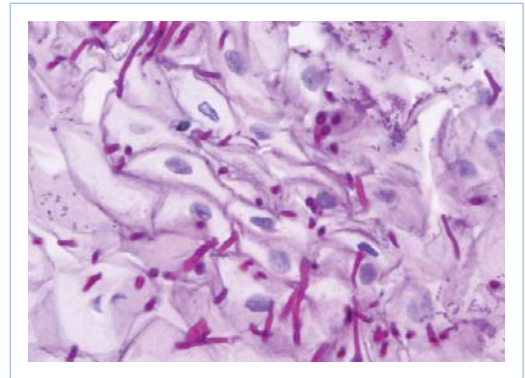
Specific staining occurs by applying the P.A.S. method (according to Hotchkiss-McManus) to unsubstituted polysaccharides, neutral mucopolysaccharides, mucoproteins, glycoproteins, glycolipids and phospholipids. When combined with Alcian Blue dye and sodium tetraborate, it produces Alcian Blue - P.A.S. kit, staining method according to Mowry. It can identify acid mucosubstances (glycosaminoglycans). BioGnost's special formulation keeps the reagent stable at room temperature.

### Advantages of BioGnost's P.A.S. kit

- Prolonged stability at room temperature
- Fast and accurate results
- Clear and recognizable image

### Staining results

- Blue - nuclei
- Violet - polysaccharides, glycogen, neutral mucopolysaccharides, mucoproteins, glycoproteins, glycolipids, phospholipids, basal membrane, collagen



### Packaging

BioGnost's P.A.S. kit contains Periodic acid, 0.8% solution, BioSchiff reagent, Sodium metabisulfite, P.A.S. HCL reagent, and Hematoxylin ML.

stable  
at 22°C



## PARALDEHYDE FUCHSIN KIT

Eight-reagent kit for detection of pathologic changes in elastic fibers acc. to Gomori

Used for detection of pathologic changes in elastic fibers, such as elastic tissue atrophy, loss or thinning of elastic tissues due to atherosclerotic changes or vascular diseases. It also stains mast cells, mucins, cartilage and pancreatic cells.

	packaging	product code
• Paraldehyde Fuchsin kit	for 100 tests	PAF-100T
• Paraldehyde Fuchsin kit	8x100 mL	PAF-K-100
• Paraldehyde Fuchsin kit	8x500 mL	PAF-K-500

## P.A.S. KIT

Periodic Acid-Schiff kit for staining aldehydes, mucopolysaccharides and mucoproteins acc. to Hotchkiss-McManus

Aldehydes, mucopolysaccharides and mucoproteins staining kit according to Hotchkiss-McManus. One of the most frequently used chemical methods in histology, based on oxidation reaction in the presence of periodic acid and Schiff's reagent. Usually used on liver and muscle cells.

	packaging	product code
• P.A.S. kit	for 100 tests	PAS5-100T
• P.A.S. kit	5x100 mL	PAS5-K-100
• P.A.S. kit	5x500 mL	PAS5-K-500

## P.A.S.M. KIT

Periodic Acid Silver Methenamine kit for staining kidney membranes acc. to Gomori

P.A.S.M. kit is used for visualization of argentaffin structures, such as basal membranes, as well as fungi and pathogens. Enables clear image section when used with gold chloride and sodium thiosulfate solutions. Green contrast solution stains background structures providing visually rich contrast to target structures stained black. This method enables setting thickness of membranes and mesangial matrix.

	packaging	product code
• P.A.S.M. kit	for 100 tests	PASM-100T

\* contact us for larger packaging

## RETICULIN KIT

Seven-reagent kit for detecting argyrophilic reticulin fibers

Reticulin kit is used for visualizing argyrophilic reticulin fibers in histologic sections. It clearly differentiates between collagen and reticulin and nerve fibers, and connective tissue.

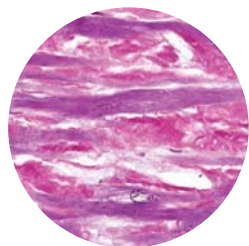
	packaging	product code
• Reticulin kit	for 100 tests	RE-100T
• Reticulin kit	7x50 mL	RE-K-50
• Reticulin kit	7x100 mL	RE-K-100

## RETICULIN CONTRAST KIT

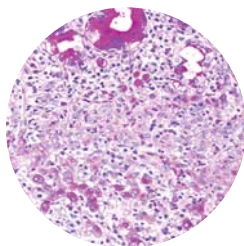
Nine-reagent kit for detecting reticulin fibers acc. to Gordon and Sweets

Reticulin Contrast kit is used for visualizing argyrophilic reticulin fibers in connective tissue. The kit contains 0.2% gold chloride solution that enhances visualization of reticulin fibers and it also contains Nuclear Fast Red (Kernechtrot) reagent that enables fine contrasting background.

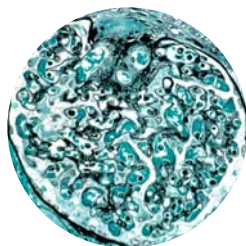
	packaging	product code
• Reticulin Contrast kit	for 100 tests	RET-100T
• Reticulin Contrast kit	9x50 mL	RET-K-50
• Reticulin Contrast kit	9x100 mL	RET-K-100



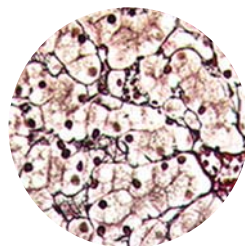
PARALDEHYDE FUCHSIN KIT



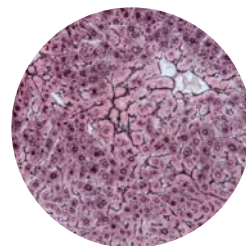
P.A.S. KIT



P.A.S.M. KIT



RETICULIN KIT



RETICULIN CONTRAST KIT

## RHODANINE KIT

Four-reagent kit for detecting copper in patients suffering from Wilson's disease

Rhodanine kit is used for detecting excessive copper deposits in liver as the result of Wilson's disease.

	packaging	product code
<ul style="list-style-type: none"> <li>Rhodanine kit</li> </ul>	for 100 tests	ROD-100T
<ul style="list-style-type: none"> <li>Rhodanine kit</li> </ul>	4x100 mL	ROD-K-100

## SUDAN BLACK B KIT

Four-reagent kit for staining neutrophil granules in hematological smears

Sudan Black B kit is used for staining myeloid and monocytoid cells that show characteristic positive reactions unlike lymphoid cell lines that do not display positive reaction; that is why it is used as one of the methods for detecting myelocytic and myelomonocytic leukemia.

	packaging	product code
<ul style="list-style-type: none"> <li>Sudan Black B kit</li> </ul>	for 350-400 tests	SBBH-K-100

## SUDAN BLACK B LIPID KIT

Four-reagent kit for staining lipids

Sudan Black B lipid kit is used for specific lipid staining in cytochemistry. Sudan Black dye stains a few types of lipids, including neutral fats, phospholipids, and sterols. Contains double amount of Sudan Black B, solution.

	packaging	product code
<ul style="list-style-type: none"> <li>Sudan Black B lipid kit</li> </ul>	for 100 tests	SBB-100T
<ul style="list-style-type: none"> <li>Sudan Black B lipid kit</li> </ul>	5x100 mL	SBB-K-100

## URIGNOST S KIT

Kit for sampling, staining, and microscopic analysis of urine sediment

UriGnost S kit contains UriGnost S reagent (reagent modified acc. to Sternheimer, produced according to the European Confederation of Laboratory Medicine (ECLM)) and all the necessary equipment for sampling, concentrating, staining, and counting cells and kidney cylinders, as well as urine sediment analysis. Type I kit contains test tubes with retentive bottom and Eppendorf 200 µL pipette tips. Type II consists of conical pipettes and decanting pipettes.

	packaging	product code
<ul style="list-style-type: none"> <li>UriGnost S kit type I</li> </ul>	for 500 tests	USK-500-1
<ul style="list-style-type: none"> <li>UriGnost S kit type II</li> </ul>	for 500 tests	USK-500-2

For more information, see pages 68 and 116.

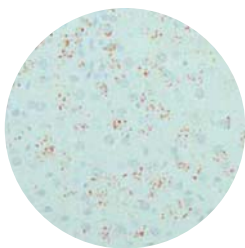
## URIGNOST SM KIT

Kit for sampling, staining and microscopic analysis of urine sediments

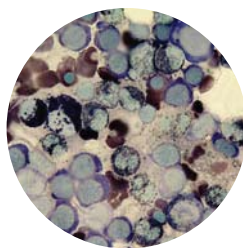
UriGnost SM kit contains UriGnost SM reagent (reagent modified acc. to Sternheimer-Malbin) and equipment required for sampling, concentration, staining, counting of kidney cells and kidney cylinders and urine sediment analysis. Type I kit contains test tubes with retentive bottom and Eppendorf 200 µL pipette tips. Type II consists of conical pipettes and decanting pipettes.

	packaging	product code
<ul style="list-style-type: none"> <li>UriGnost Sediment kit type I</li> </ul>	for 500 tests	USMK-500-1
<ul style="list-style-type: none"> <li>UriGnost Sediment kit type II</li> </ul>	for 500 tests	USMK-500-2

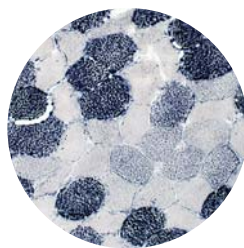
For more information, see pages 68 and 116.



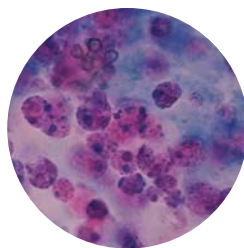
RHODANINE KIT



SUDAN BLACK B  
KIT



SUDAN BLACK B  
LIPID KIT



URIGNOST S KIT



URIGNOST SM  
KIT

## VAN GIESON TRICHROME KIT

Three-reagent collagen fibers staining kit

Used for differentiation between collagen and smooth muscle fibers in tumors and various other diseases.

	packaging	product code
<ul style="list-style-type: none"> <li>Van Gieson Trichrome kit</li> </ul>	for 100 tests	VG-100T
<ul style="list-style-type: none"> <li>Van Gieson Trichrome kit</li> </ul>	3x100 mL	VG-K-100
<ul style="list-style-type: none"> <li>Van Gieson Trichrome kit</li> </ul>	3x500 mL	VG-K-500

## VON KOSSA KIT

Five-reagent kit for calcium deposit and calcium salt staining

Used for staining of calcium deposits and calcium salts and detection of mineralization level in cell cultures and tissue sections, according to Von Kossa.

	packaging	product code
<ul style="list-style-type: none"> <li>Von Kossa kit</li> </ul>	for 100 tests	VK-100T
<ul style="list-style-type: none"> <li>Von Kossa kit</li> </ul>	5x100 mL	VK-K-100
<ul style="list-style-type: none"> <li>Von Kossa kit</li> </ul>	5x250 mL	VK-K-250
<ul style="list-style-type: none"> <li>Von Kossa kit</li> </ul>	5x500 mL	VK-K-500

## WARTHIN STARRY KIT

Five-reagent kit for staining *Spirochaeta* and *Helicobacter pylori*

Kit for detecting *Spirochaeta* and *Helicobacter pylori* in histological samples using silver salts. The kit contains 12 jars with gelatin that enables both incubation and staining of sections, as well as other reagents that enable precipitation of silver on the bacterial surface.

	packaging	product code
<ul style="list-style-type: none"> <li>Warthin Starry kit</li> </ul>	up to 48 tests	WS-12T

\* contact us for larger packaging

## WEIGERT-VAN GIESON KIT, RAPID METHOD

Four-reagent kit for staining elastic fibers

Used for differentiation between elastic tissues, collagens and other types of connective tissues. The rapid method enables a satisfactory result with shorter section staining time.

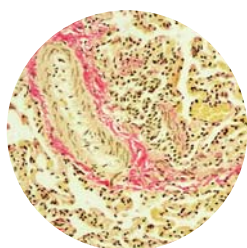
	packaging	product code
<ul style="list-style-type: none"> <li>Weigert-Van Gieson kit, rapid method</li> </ul>	for 100 tests	WVGB-100T
<ul style="list-style-type: none"> <li>Weigert-Van Gieson kit, rapid method</li> </ul>	4x100 mL	WVGB-K-100

## WEIGERT-VAN GIESON KIT, STANDARD METHOD

Six-reagent kit for staining elastic fibers with prolonged incubation period

Used for differentiation between elastic tissues, collagens and other types of connective tissues. Unlike rapid method, the standard method achieves better differentiation between elastic tissues.

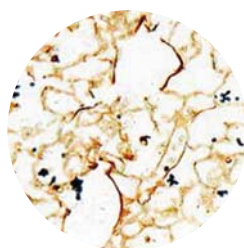
	packaging	product code
<ul style="list-style-type: none"> <li>Weigert-Van Gieson kit, standard method</li> </ul>	for 100 tests	WVG-100T
<ul style="list-style-type: none"> <li>Weigert-Van Gieson kit, standard method</li> </ul>	6x100 mL	WVG-K-100



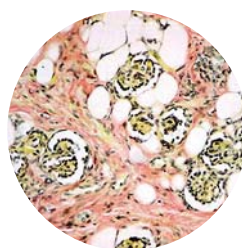
VAN GIESON TRICHROME KIT



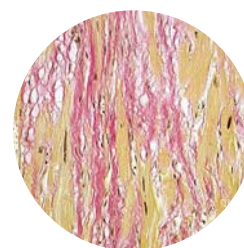
VON KOSSA KIT



WARTHIN STARRY KIT



WEIGERT-VAN GIESON KIT, RAPID METHOD



WEIGERT-VAN GIESON KIT, STANDARD METHOD

## ACRIDINE ORANGE SOLUTION

Acridine Orange aqueous solution for wide application

Acridine Orange solution is intended for use with various staining methods. It is used as fluorescent dye for differential staining of DNA and RNA, as well as staining acid mucins and detecting apoptosis; in cytogenetics is used for displaying structures containing abundant amounts of DNA.

Acridine Orange solution also enables detection of microorganisms in blood smears.

	packaging	product code
• Acridine Orange solution	100 mL	AOA-OT-100
• Acridine Orange solution	500 mL	AOA-OT-500
• Acridine Orange solution	1000 mL	AOA-OT-1L

## A.F.O.G. REAGENT

For use in A.F.O.G. (Acid Fuchsin Orange G) staining kit

Reagent for staining kidney biopsies. Contains Aniline Blue, Acid Fuchsin, and Orange G.

	packaging	product code
• A.F.O.G. reagent	100 mL	AFOG-OT-100

## ALCIAN BLUE SOLUTION 1%

Alcian Blue 8GX dye 1% aqueous solution

Component of Paraldehyde Fuchsin kit.

	packaging	product code
• Alcian Blue solution 1%	100 mL	AB1-OT-100
• Alcian Blue solution 1%	500 mL	AB1-OT-500

## ALCIAN BLUE SOLUTION pH 2.5

Reagent for staining acid mucopolysaccharides

Optimal staining of acid mucopolysaccharides of intestinal goblet cells is achieved by using aqueous solution of Alcian Blue 8GX dye with added acetic acid (pH 2.5). It is a component of Alcian Blue-P.A.S. and Alcian Blue pH 2.5 kits.

	packaging	product code
• Alcian Blue solution pH 2.5	100 mL	AB2-OT-100
• Alcian Blue solution pH 2.5	500 mL	AB2-OT-500
• Alcian Blue solution pH 2.5	1000 mL	AB2-OT-1L

## AMMONIUM IRON SULFATE, SOLUTION

For use in Reticulin and Reticulin Contrast kits

Component of Reticulin and Reticulin Contrast for better visualization and detecting argyrophilic reticulin fibers in connective tissues.

	packaging	product code
• Ammonium iron sulfate, solution	100 mL	ASF-OT-100

## AMMONIA SOLUTION

Optimum concentration of ammonia hydroxide solution

Component of Von Kossa kit for staining calcium and calcium salts deposits.

	packaging	product code
• Ammonia solution	100 mL	AO-OT-100

## ANILINE, ALCOHOLIC SOLUTION

For use with Azan Trichrome staining kit

Alcoholic aniline solution is used as a component of Azan Trichrome kit for staining muscles, collagen fibers, glial cells, glomerular cells and erythrocytes.

	packaging	product code
• Aniline, alcoholic solution	100 mL	ANA-OT-100
• Aniline, alcoholic solution	250 mL	ANA-OT-250

## ANILINE BLUE REAGENT

For use in Masson Trichrome staining kit

Reagent for differentiation between muscle and collagen fibers.

	packaging	product code
• Aniline Blue reagent	100 mL	ABR-OT-100



# BioSchiff reagent

## SCHIFF'S REAGENT FOR DETECTING ALDEHYDES AND MUCOUS SUBSTANCES

Most commonly used as a primary dye in P.A.S., Alcian Blue - P.A.S. and Feulgen kits.

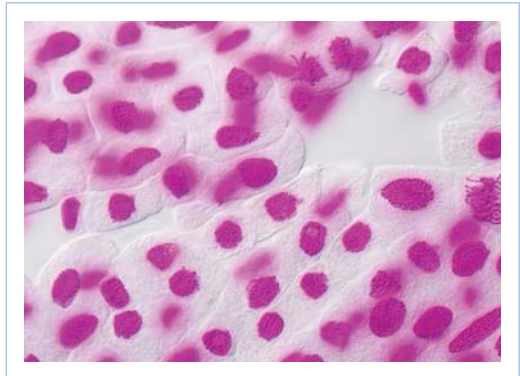
BioSchiff reagent is a colorless solution that changes to violet (magenta) in the presence of aldehydes. BioGnost's special formulation keeps the reagent **stable at room temperature**. The intensity of the resulting color depends on the amount of reactive glycol structures present in the tissue. Used in microscopy and electrophoresis.

### Advantages of BioGnost's BioSchiff reagent

- Exceptional stability at room temperature
- Fast and accurate results
- Clear image
- Can be used for detecting DNA acc. to Feulgen

### Staining results

- Violet - polysaccharides, glycogen, neutral mucopolysaccharides, mucoproteins and glycoproteins, glycolipids, phospholipids, basal membrane, collagen



stable  
at 22°C





## AZAN REAGENT

For use with Azan Trichrome kit

Azan reagent is an integral component of Azan Trichrome kit used for visualization of muscles, collagen fibers, glial cells, glomerular cells and erythrocytes.

	packaging	product code
• Azan reagent	100 mL	AZR-OT-100
• Azan reagent	250 mL	AZR-OT-250

## AZOCARMINE, SOLUTION

For use in Azan trichrome kit

Azocarmine solution is an integral component of Azan trichrome kit used for visualization of muscles, collagen fibers, glial cells, glomerular cells and erythrocytes

	packaging	product code
• Azocarmine, solution	100 mL	AZ-OT-100
• Azocarmine, solution	250 mL	AZ-OT-250

## BIEBRICH SCARLET-ACID FUCHSIN REAGENT

For use in Masson Trichrome and Masson-Goldner Trichrome staining kits

Reagent for differentiation between muscle and collagen fibers.

	packaging	product code
• Biebrich Scarlet-Acid Fuchsin reagent	100 mL	BSAF-OT-100

## BIOSCHIFF REAGENT

Schiff's reagent for detecting aldehydes and mucous substances

BioSchiff reagent is a colorless solution that changes to violet (magenta) in the presence of aldehydes. The intensity of the color obtained depends on amount of reactive glycol structures in the tissue. It is a component of Alcian Blue-P.A.S., P.A.S., and Feulgen kits. Stable at 22°C.

	packaging	product code
• BioSchiff reagent	100 mL	BS-OT-100
• BioSchiff reagent	500 mL	BS-OT-500
• BioSchiff reagent	1000 mL	BS-OT-1L
• BioSchiff reagent	2500 mL	BS-OT-2.5L

## CHROMOTROPE 2R / ANILINE BLUE REAGENT

For use with Gomori Trichrome kit

Reagent for staining cytoplasm red and collagen fibers blue.

	packaging	product code
• Chromotrope 2R / Aniline Blue reagent	100 mL	CABR-OT-100
• Chromotrope 2R / Aniline Blue reagent	500 mL	CABR-OT-500

## CHROMOTROPE 2R / FAST GREEN F.C.F. REAGENT

For use with Gomori Trichrome kit

Reagent for staining cytoplasm red and collagen fibers green.	packaging	product code
• Chromotrope 2R / Fast Green F.C.F. reagent	100 mL	CFG-OT-100
• Chromotrope 2R / Fast Green F.C.F. reagent	500 mL	CFG-OT-500

## CONGO RED REAGENT

For use in Congo Red Highman staining kit

Specificity of treatment with Congo Red reagent lies in the appearance of dichromacy – amyloid deposits show green coloration.	packaging	product code
• Congo Red reagent	100 mL	CR-OT-100
• Congo Red reagent	500 mL	CR-OT-500
• Congo Red reagent	1000 mL	CR-OT-1L

## CRESYL VIOLET, SOLUTION

For use with Luxol Fast Blue kit

Cresyl Violet solution is a component of Luxol Fast Blue kit for staining myelin and phospholipids according to Kluver-Barrera method.	packaging	product code
• Cresyl Violet, solution	100 mL	CV-OT-100

## EHRlich ALDEHYDE REAGENT

Reagent for detecting urobilinogens

Ehrlich aldehyde reagent is used for detecting urobilinogens in urine. Urobilinogen occurs after reduction of bilirubin, a pigmented bile constituent.	packaging	product code
• Ehrlich aldehyde reagent	100 mL	EAR-OT-100
• Ehrlich aldehyde reagent	500 mL	EAR-OT-500
• Ehrlich aldehyde reagent	1000 mL	EAR-OT-1L

## EOSIN Y, ISOTONIC SOLUTION

Aqueous solution of Eosin Y used in Eosin-nigrosin vital kit

The component of Eosin-nigrosin vital kit used for fast detection of sperm vitality. During staining, Eosin Y enters the damaged (dead) sperm cells and stains them red.	packaging	product code
• Eosin Y, isotonic solution	100 mL	EIO-OT-100

## EOSIN-NIGROSIN REAGENT

Isotonic reagent for detecting sperm vitality

Eosin-nigrosin reagent enables simple and fast visualization and distinction between dead and living sperm cells. Eosin enters the damaged (dead) sperm cells and stains them red, while living sperm cells remain non-dyed. Nigrosin dye provides dark contrast to the section to enable clearer and better visualization of living, non-dyed sperm cells.	packaging	product code
• Eosin-nigrosin reagent	50 mL	ENR-OT-50
• Eosin-nigrosin reagent	100 mL	ENR-OT-100

## NIGROSINE, ISOTONIC SOLUTION

Aqueous solution of nigrosine for Eosin-nigrosine vital kit

Component of Eosin-nigrosine vital kit for rapid detection of sperm vitality. During staining nigrosine provides dark background on the section in order to easily enable non-stained (living) and red (dead) sperm cells.	packaging	product code
• Nigrosine, isotonic solution	100 mL	NIO-OT-100

## FAST GREEN F.C.F. REAGENT

For use in special kits

Reagent for differentiation between muscle and collagen fibers.	packaging	product code
• Fast Green F.C.F. reagent	100 mL	FGR-OT-100

## FAST GREEN F.C.F. CONTRAST REAGENT

Contrast reagent for use in special kits

Fast Green F.C.F. contrast reagent is used with P.A.S.M and Grocott kits.

	packaging	product code
• Fast Green F.C.F. contrast reagent	100 mL	FGKR-OT-100

## FERRI REAGENT, WEIGERT B

Iron(III) nitrate solution in diluted hydrochloric acid

Component B of Hematoxylin Weigert cell nuclei and connective tissue staining kit and also a component of A.F.O.G., Gomori Trichrome, Masson-Goldner Trichrome, Masson Trichrome, Van Gieson Trichrome and Weigert-Van Gieson muscle, collagen, and elastic fiber staining kits.

	packaging	product code
• Ferri reagent, Weigert B	100 mL	FR-OT-100
• Ferri reagent, Weigert B	500 mL	FR-OT-500

## 4% FORMALDEHYDE, ALCOHOLIC SOLUTION

For use in Reticulin and Reticulin Contrast kits

4% Formaldehyde alcoholic solution is used as reducing agent in Reticulin and Reticulin Contrast kits. It causes deposits of silver in the form of metal on the target tissue structures.

	packaging	product code
• 4% Formaldehyde, alcoholic solution	100 mL	F4A-OT-100

## PHOSPHOMOLYBDIC ACID, 1% SOLUTION

For use in A.F.O.G. (Acid Fuchsin Orange G) and in Mallory Trichrome staining kits

During staining using A.F.O.G. and Mallory Trichrome kits, phosphomolybdic acid (P.M.A.) enables stronger binding of Aniline Blue dye to collagen fibers.

	packaging	product code
• Phosphomolybdic acid, 1% solution	100 mL	FMK1-OT-100
• Phosphomolybdic acid, 1% solution	500 mL	FMK1-OT-500

## PHOSPHOTUNGSTIC ACID, 1% SOLUTION

For use in Mallory Trichrome staining kit

In Mallory Trichrome staining procedure, phosphotungstic acid (P.T.A.) excludes Acid Fuchsin molecule from collagen, which is then stained blue with Aniline Blue dye molecule.

	packaging	product code
• Phosphotungstic acid, 1% solution	100 mL	FVK1-OT-100
• Phosphotungstic acid, 1% solution	500 mL	FVK1-OT-500

## FUCHSIN ACID REAGENT

For use in Mallory Trichrome staining kit

Reagent for staining muscle fibers red.

	packaging	product code
• Fuchsin Acid reagent	100 mL	FA-OT-100
• Fuchsin Acid reagent	500 mL	FA-OT-500

## FUCHSIN ACID VAN GIESON REAGENT

For use in Van Gieson Trichrome staining kit, synonym Picrofuchsin reagent

Reagent with added picric acid, for staining muscle fibers yellow.

	packaging	product code
• Fuchsin Acid Van Gieson reagent	100 mL	FAG-OT-100
• Fuchsin Acid Van Gieson reagent	500 mL	FAG-OT-500

## FUCHSIN BASIC REAGENT

For use in Van Gieson Trichrome staining kit

Reagent for staining collagen fibers red.

	packaging	product code
• Fuchsin Basic reagent	100 mL	FBR-OT-100
• Fuchsin Basic reagent	500 mL	FBR-OT-500



## GLUTARALDEHYDE, 4% BUFFERED SOLUTION

Solution for use with Sudan Black B kit

Buffered 4% glutaraldehyde solution is a component of Sudan Black B kit for staining neutrophil granules in hematologic smears.

	packaging	product code
• Glutaraldehyde, 4% buffered solution	250 mL	G4-OT-250
• Glutaraldehyde, 4% buffered solution	500 mL	G4-OT-500

## HEMATOXYLIN, WEIGERT A

Hematoxylin solution in ethanol

Component A of Hematoxylin Weigert cell nuclei and connective tissue staining kit and also a component of A.F.O.G., Gomori Trichrome, Masson-Goldner Trichrome, Masson Trichrome, Van Gieson Trichrome and Weigert-Van Gieson muscle and collagen fiber staining kits.

	packaging	product code
• Hematoxylin, Weigert A	100 mL	HEMA-OT-100
• Hematoxylin, Weigert A	500 mL	HEMA-OT-500

## HYDROQUINONE, SOLUTION

For preparation of developing solution in Warthin Starry kit

Hydroquinone solution is used as an agent that reduces silver nitrate to elementary silver in Warthin Starry kit used for staining *Helicobacter pylori*.

	packaging	product code
• Hydroquinone, solution	30 mL	HQ-OT-30

## POTASSIUM HEXACYANOFERRATE, SOLUTION

Potassium hexacyanoferrate (II) solution, optimally concentrated

A component of HemoGnost Perls (Prussian Blue, Berlin Blue) kit for detection of free ferric ( $Fe^{3+}$ ) ions in cells.

	packaging	product code
• Potassium hexacyanoferrate, solution	100 mL	KHC-OT-100
• Potassium hexacyanoferrate, solution	250 mL	KHC-OT-250

## POTASSIUM HYDROXIDE, SOLUTION

Optimally concentrated aqueous solution of potassium hydroxide

Potassium hydroxide solution is used in Congo Red Highman kit for staining amyloids (amorphous precipitate).

	packaging	product code
• Potassium hydroxide, solution	100 mL	KHO-OT-100
• Potassium hydroxide, solution	500 mL	KHO-OT-500

# Reagents and solutions for staining in histology

## POTASSIUM PERMANGANATE, 0.5% SOLUTION

For use in special kits

Component of special histology staining kits, such as Masson Fontana, Paraldehyde Fuchsin, Hematoxylin P.T.A., Reticulin, and Reticulin Contrast.

	packaging	product code
• Potassium permanganate, 0.5% solution	100 mL	KP05-OT-100
• Potassium permanganate, 0.5% solution	500 mL	KP05-OT-500

## ACID SOLUTION

For preparation of impregnation solution

Acid solution is used in Warthin Starry kit for staining *Helicobacter pylori*. By adding silver nitrate it creates impregnation solution.

	packaging	product code
• Acid solution	500 mL	KOT-OT-500
• Acid solution	1000 mL	KOT-OT-1L

## LIGHT GREEN S.F. REAGENT

For use in trichrome special stains kits

Reagent for staining collagen fibers green.

	packaging	product code
• Light Green S.F. reagent	100 mL	LGS-OT-100
• Light Green S.F. reagent	500 mL	LGS-OT-500

## LITHIUM CARBONATE, SOLUTION

Lithium carbonate solution for use in special kits

Lithium carbonate solution used in special kits, such as Luxol Fast Blue and Von Kossa kits.

	packaging	product code
• Lithium carbonate, solution	100 mL	LK-OT-100
• Lithium carbonate, solution	250 mL	LK-OT-250
• Lithium carbonate, solution	500 mL	LK-OT-500

## LUXOL FAST BLUE, SOLUTION

For use with Luxol Fast Blue staining kit

Luxol Fast Blue solution is a component of Luxol Fast Blue kit used for staining myelins and phospholipids.

	packaging	product code
• Luxol Fast Blue, solution	100 mL	LFB-OT-100

## MAYER'S CARMALUM

Histological samples counterstaining reagent

Mayer's carmalum is often used as a counterstain combined with Alcian Blue. Used on whole, smaller histological samples, such as embryos or invertebrate samples.

	packaging	product code
• Mayer's carmalum	100 mL	MK-OT-100

## MAYER'S MUCICARMINE

For use in Mucicarmine kit

Mayer's mucicarmine is a component of Mucicarmine kit used for visualization of acid mucopolysaccharides (mucins).

	packaging	product code
• Mayer's mucicarmine	100 mL	MMU-OT-100

## METANIL YELLOW, SOLUTION

For use in Mucicarmine kit

Metanil Yellow dye solution is a component of Mucicarmine kit for detecting acid mucopolysaccharides (mucins).

	packaging	product code
• Metanil Yellow, solution	100 mL	MY-OT-100

## METHYL BLUE EOSIN, SOLUTION

Modified Mann solution for use in histology

Polychromatic solution of Methyl Blue and Eosin Y stain is used for staining anterior pituitary, viral inclusion bodies, goblet cells, enterocytes, Paneth cells, pancreatic cells, and for detecting Negri bodies.

	packaging	product code
• Methyl Blue Eosin, solution	100 mL	MBE-OT-100
• Methyl Blue Eosin, solution	500 mL	MBE-OT-500
• Methyl Blue Eosin, solution	1000 mL	MBE-OT-1L

## METHENAMINE BORATE

For use in special kits

Methenamine borate is a component of P.A.S.M. and Grocott kits used for visualization of argentaffin structures, such as kidney membranes and fungi. It is practically packed in bags and immediately ready to use.

	packaging	product code
• Methenamine borate	20x1.85 g	MEB-20-185
• Methenamine borate	50x1.85 g	MEB-50-185

## SODIUM ACETATE, SOLUTION

For use in Rhodanine kit

Sodium acetate solution used as a component of Rhodanine kit for detecting copper.

	packaging	product code
• Sodium acetate, solution	100 mL	NA-OT-100

## SODIUM METABISULFITE, SOLUTION

Optimum-concentration sodium metabisulfite solution

Component of Alcian Blue-P.A.S., P.A.S., and Feulgen kits.

	packaging	product code
• Sodium metabisulfite, solution	100 mL	NM-OT-100
• Sodium metabisulfite, solution	250 mL	NM-OT-250
• Sodium metabisulfite, solution	500 mL	NM-OT-500

## SODIUM TETRABORATE, SOLUTION

Sodium tetraborate (borax) solution, optimally concentrated

A component of Alcian Blue pH 2.5, Alcian Blue-P.A.S., and Methenamine kits.

	packaging	product code
• Sodium tetraborate, solution	100 mL	NTB-OT-100
• Sodium tetraborate, solution	500 mL	NTB-OT-500

## NEUTRAL RED REAGENT

Neutral Red aqueous solution for use in special kits

Neutral Red reagent is a counterstain that provides contrast colored red for emphasizing target structures on the section. It is often used as a substitute for Nuclear Fast Red (Kernechtrot) reagent.

	packaging	product code
• Neutral Red reagent	100 mL	NR-OT-100
• Neutral Red reagent	250 mL	NR-OT-250
• Neutral Red reagent	500 mL	NR-OT-500

## NUCLEAR FAST RED (KERNECHTROT) REAGENT

0.1% Nuclear Fast Red dye solution for staining nuclei

Component of many special staining kits, such as HemoGnost Perls, Alcian Blue pH 2.5, Reticulin Contrast, Von Kossa, Masson Fontana, and Sudan Black B Lipid kits. Nuclear Fast Red (Kernechtrot) reagent stains cellular nuclei in a simple and reliable way. It is used to achieve strong contrast of target structures on the section.

	packaging	product code
• Nuclear Fast Red (Kernechtrot) reagent	100 mL	KR-OT-100
• Nuclear Fast Red (Kernechtrot) reagent	250 mL	KR-OT-250
• Nuclear Fast Red (Kernechtrot) reagent	500 mL	KR-OT-500

## OIL RED O REAGENT

Lipid substances staining solution

Used for staining of neutral triglycerides and lipids in frozen tissue sections and lypoproteins in paraffin tissue sections. Oil Red O dye has greatly replaced Sudan III and Sudan IV dyes, since it shows darker red staining and therefore facilitates microscopic observation.

	packaging	product code
• Oil Red O reagent	100 mL	ORO-OT-100
• Oil Red O reagent	250 mL	ORO-OT-250
• Oil Red O reagent	500 mL	ORO-OT-500

## OXALIC ACID, 1% SOLUTION

For use in special kits

Component of various special kits, such as Hematoxylin P.T.A., Masson Fontana, Reticulin, and Reticulin Contrast kits.

	packaging	product code
• Oxalic solution, 1% solution	100 mL	OKS1-OT-100

## ORANGE G / ANILINE BLUE REAGENT

For use in Mallory Trichrome staining kit

A reagent for staining erythrocytes orange and collagen fibers blue.

	packaging	product code
• Orange G / Aniline Blue reagent	100 mL	OGA-OT-100
• Orange G / Aniline Blue reagent	500 mL	OGA-OT-500

## SODIUM THIOSULFATE SOLUTION

Sodium thiosulfate solutions for use in special kits

Sodium thiosulfate solutions are often components of special kits that remove excessive non-bound silver-gold compounds or non-specific silver on sections. The solution is a component of Grocott, Masson Fontana, P.A.S.M., Reticulin, Reticulin Contrast, and Von Kossa special kits.

	packaging	product code
▪ Sodium thiosulfate, solution	100 mL	NT-OT-100
▪ Sodium thiosulfate, solution	250 mL	NT-OT-250
▪ Sodium thiosulfate, solution	500 mL	NT-OT-500
▪ Sodium thiosulfate, 2% solution	100 mL	NT2-OT-100
▪ Sodium thiosulfate, 5% solution	100 mL	NT5-OT-100

## SILVER NITRATE SOLUTIONS

For use in special kits

Specially prepared silver nitrate solutions with or without special additives that enable them to suit a specific special kit for staining argyrophilic or argentaffin structures in histologic sections. A component of Grocott, Masson Fontana, P.A.S.M., Reticulin, Reticulin Contrast, and Warthin Starry kits.

	packaging	product code
▪ Silver ammonia solution *	100 mL	SA-OT-100
▪ Silver ammonia solution, Masson Fontana	100 mL	SAMF-OT-100
▪ Silver nitrate, solution for Grocott kit	100 mL	SNG-OT-100
▪ Silver nitrate, solution for P.A.S.M. kit	100 mL	SNP-OT-100
▪ Silver nitrate, WS solution	30 mL	SNWS-OT-30

\* component of Reticulin and Reticulin Contrast kits

## PARALDEHYDE FUCHSIN REAGENT

Reagent for staining elastins and mucins

Component of Paraldehyde Fuchsin kit used for detection of pathological changes in elastic fibers.

	packaging	product code
▪ Paraldehyde Fuchsin reagent	100 mL	PAF-OT-100
▪ Paraldehyde Fuchsin reagent	500 mL	PAF-OT-500

## PERIODIC ACID, SOLUTION

Synonym: Orthoperiodic acid

Oxidizing medium widely used in histology. Key component of many special staining kits, such as P.A.S. and Alcian Blue-P.A.S., P.A.S.M., Grocott, and Weigert-Van Gieson kits.

	packaging	product code
▪ Periodic acid, 0.5% solution	100 mL	PK05-OT-100
▪ Periodic acid, 0.5% solution	250 mL	PK05-OT-250
▪ Periodic acid, 0.5% solution	500 mL	PK05-OT-500
▪ Periodic acid, 0.8% solution	100 mL	PK08-OT-100
▪ Periodic acid, 0.8% solution	250 mL	PK08-OT-250
▪ Periodic acid, 0.8% solution	500 mL	PK08-OT-500
▪ Periodic acid, 1% solution	100 mL	PK1-OT-100
▪ Periodic acid, 1% solution	250 mL	PK1-OT-250
▪ Periodic acid, 1% solution	500 mL	PK1-OT-500

## PROPYLENE GLYCOL

For use in special kits

Propylene glycol is a component of Sudan Black B lipid kit used for specific lipid staining in cytochemistry.

	packaging	product code
▪ Propylene glycol	100 mL	PG-100

## PROPYLENE GLYCOL, 85%

For use in special kits

85% propylene glycol is a component of Sudan Black B lipid kit used for specific lipid staining in cytochemistry.

	packaging	product code
▪ Propylene glycol, 85%	100 mL	PG85-100





## P.T.A.-P.M.A. REAGENT

Reagent containing optimum concentration of phosphotungstic and phosphomolybdic acid  
P.T.A. - P.M.A. reagent enables stronger binding of Aniline Blue dye, or Light Green S.F. or Fast Green F.C.F. dyes to collagen fibers during staining using Masson Trichrome and Masson-Goldner Trichrome kits.

	packaging	product code
• P.T.A. - P.M.A. reagent	100 mL	PPR-OT-100

## PHOSPHATE BUFFERED SALINE (PBS)

Sterilized isotonic phosphate buffer solutions

Physiological buffer solutions have characteristics of isotonic solution. They are used for maintaining intracellular and extracellular osmotic balance and cell stabilization during subcultivation and isolation.

	packaging	product code
• Buffered saline (Dulbecco), without added calcium and magnesium, sterile filtered	500 mL	D-OT-500
• Buffered saline (Dulbecco), without added calcium and magnesium, concentrated 10x, sterile filtered	500 mL	DX-OT-500
• Buffered saline (Dulbecco), with added calcium and magnesium, sterile filtered	500 mL	DCM-OT-500
• Buffered saline (Dulbecco), with added calcium and magnesium, concentrated 10x, sterile filtered	500 mL	DCMX-OT-500
• Buffered saline (Dulbecco) (0.01 mol/L, Tween 20), sterile filtered	500 mL	PBS-OT-500

## BUFFER TABLETS pH 6.8

Phosphate buffer tablets for preparing 100 liters of buffer solutions used in hematology and histology

One buffer tablet is sufficient for preparation of 1000 mL of phosphate buffer solution with stable pH 6.8, optimal buffer capacity, low temperature coefficients and minimal pH changes after solution dilution. It is recommended for use with May-Gruenwald Giemsa (Pappenheim) staining methods.

	packaging	product code
• Buffer tablets pH 6.8	100 pcs	PT-68-100

## BUFFER TABLETS pH 7.2

Phosphate buffer tablets for preparing 100 liters of buffer solutions used in hematology and histology

One buffer tablet is sufficient for preparation of 1000 mL of phosphate buffer solution with stable pH 7.2, optimal buffer capacity, low temperature coefficients and minimal pH changes after solution dilution. It is recommended for rapid samples staining with Bio-Diff and Bio-Diff RTU kits.

	packaging	product code
• Buffer tablets pH 7.2	100 pcs	PT-72-100

**Note:** pH value of 7.0 is achieved by dissolving 1 Buffer tablet pH 6.8 with 1 Buffer tablet pH 7.2 in two liters of distilled water.

## REAGENTS FOR DIFFERENTIATION BASED ON ACETIC ACID

For use with special staining kits in histopathology

Reagents for differentiation remove excessive dye from the section. This in turn highlights structures that selectively retain dye. Used in special kits such as Gomori Trichrome, Masson Trichrome and Masson Trichrome Goldner.

	packaging	product code
• Reagent for differentiation in Gomori Trichrome kit	100 mL	RDG-OT-100
• Acetic acid, 1% solution	100 mL	OK1-OT-100

## DIFFERENTIATING REAGENTS BASED ON HYDROCHLORIC ACID

For use in special staining kits in histopathology

Diluted hydrochloric acid often used as a differentiating agent used to remove excessive dye from the samples and for clearer visualization of structures that selectively retain the dye.

	packaging	product code
• HCL reagent, A.F.O.G.	100 mL	HCLAF-OT-100
• HCL reagent, Feulgen	100 mL	HCLF-OT-100
• HCL reagent, Feulgen	250 mL	HCLF-OT-250
• HCL reagent, HemoGnost Perls	100 mL	HCLH-OT-100
• HCL reagent, HemoGnost Perls	250 mL	HCLH-OT-250
• HCL reagent, P.A.S.	100 mL	HCLP-OT-100
• HCL reagent, P.A.S.	500 mL	HCLP-OT-500
• HCL reagent, Weigert-Van Gieson	100 mL	HCLW-OT-100

## RHODANINE REAGENT

Solution for use in Rhodanine kit

Rhodanine reagent is the basic component of Rhodanine kit used for detecting excessive copper build up in the liver as a result of Wilson's disease.

	packaging	product code
• Rhodanine reagent	100 mL	RR-OT-100

## SILVER NITRATE, CONCENTRATED SOLUTION

Concentrated aqueous silver nitrate solution

Higher concentration of silver nitrate in aqueous solution enables adjusting concentration according to the needs of a laboratory. Component of many special kits used for detecting argentaffin or argyrophilic structures, such as P.A.S.M., Grocott, Reticulin, Reticulin Contrast, Warthin Starry, and Masson Fontana. It is also possible to substitute certain ions with silver, like in Von Kossa kit.

	packaging	product code
• Silver nitrate, 5% solution	50 mL	SN5-OT-50
• Silver nitrate, 10% solution	50 mL	SN10-OT-50

## SUDAN BLACK B, SOLUTION

Solution for staining lipids

Sudan Black B dye dissolved in propylene glycol is a component of Sudan Black B lipid kit for specific staining of lipids, such as neutral fats, phospholipids and sterols.

	packaging	product code
• Sudan Black B, solution	100 mL	SBO-OT-100





## SUDAN BLACK B REAGENT

Staining reagent for use in hematology

Sudan Black B reagent is a component of Sudan Black B kit used for staining neutrophil granules in blood smears and bone marrow smears.

	packaging	product code
• Sudan Black B reagent	100 mL	SBB-OT-100
• Sudan Black B reagent	500 mL	SBB-OT-500

## SULFURIC ACID, SOLUTION

For use in special kits

Sulfuric acid solution is often used during first steps of section staining when it is necessary to oxidize it before exposure to reagents that induce the key reaction specific to individual staining method. It is used in Hematoxylin P.T.A., Masson Fontana, Reticulin and Reticulin Contrast kits.

	packaging	product code
• Sulfuric acid, 0.5% solution	100 mL	SK05-OT-100
• Sulfuric acid, 0.5% solution	500 mL	SK05-OT-500
• Sulfuric acid, 3% solution	100 mL	SK3-OT-100
• Sulfuric acid, 3% solution	500 mL	SK3-OT-500

## TINCTURE OF IODINE, 1%

Iodine alcoholic solution

Tincture of iodine is used as disinfectant. It contains iodine and potassium iodide in ethyl alcohol.

	packaging	product code
• Tincture of iodine, 1%	100 mL	TJ-OT-100
• Tincture of iodine, 1%	1000 mL	TJ-OT-1L

## TOLUIDINE BLUE, SOLUTION

Solution for nuclear staining and metachromatic staining mastocytes in connective tissues

Mostly used for acid substances, mastocyte granules, cartilage acid substances and certain epithelial mucin metachromatic staining. Can be used for Collins test.

	packaging	product code
• Toluidine Blue, solution	100 mL	TB-OT-100
• Toluidine Blue, solution	250 mL	TB-OT-250

## URIGNOST S REAGENT

Modification acc. to Sternheimer for staining and microscopic analysis of urine sediment

UriGnost S is stabilized and modified reagent acc. to Sternheimer for staining urine sediment, produced according to the European Confederation of Laboratory Medicine (ECLM). Contains Alcian Blue and Pyronine B dyes. Component of UriGnost S kit.

	packaging	product code
• UriGnost S reagent for 500 tests	50 mL	UGS-500
• UriGnost S reagent for 1000 tests	100 mL	UGS-1000

For more information, see pages 54 and 116.

## URIGNOST SM REAGENT

Modification acc. to Sternheimer-Malbin for staining and microscopic analysis of urine sediment

UriGnost SM is a stabilized and modified reagent acc. to Sternheimer-Malbin for staining urine sediment. Contains Safranin O and Crystal Violet dyes. Component of UriGnost SM kit.

	packaging	product code
• UriGnost SM reagent for 500 tests	50 mL	UGSM-500
• UriGnost SM reagent for 1000 tests	100 mL	UGSM-1000

For more information, see pages 54 and 116.

## GOLD CHLORIDE, 0.2% SOLUTION

0.2% gold chloride aqueous solution (aurichloric acid,  $\text{HAuCl}_4$ )

A component of many special kits, such as P.A.S.M., Grocott, and Reticulin Contrast kits.

	packaging	product code
• Gold chloride, 0.2% solution	100 mL	ZK02-OT-100

## GOLD CHLORIDE, CONCENTRATED SOLUTION

Gold chloride aqueous solution (aurichloric acid,  $\text{HAuCl}_4$ ) for making working solutions

Higher concentration of gold chloride in aqueous solution enables setting the concentration according to the needs of a laboratory. A component of many special kits that contain silver nitrate solutions. Gold chloride solution enhances the contrast by creating clearer section image. A component of P.A.S.M., Grocott and Reticulin Contrast kits.

	packaging	product code
• Gold chloride, 1% solution	50 mL	ZK1-OT-50
• Gold chloride, 2% solution	50 mL	ZK2-OT-50

## GELATIN, GEL IN TRANSPORT JAR

For preparing developing solution in Warthin Starry kit

Gelatin is contained in transport jar and it provides incubation and section staining. It is possible to keep 1-4 sections in a single jar. By heating and adding other necessary components of Warthin Starry kit to the jar with gelatin, developing solution is formed and it in turn enables visualization of *Helicobacter pylori* on the section.

	packaging	product code
• Gelatin, gel in transport jar	20x8 mL	GEL-208
• Gelatin, gel in transport jar	50x8 mL	GEL-508

# OEM manufacture and private label manufacture

Besides products from their own sales ranges, BioGnost also offers OEM manufacture for your company, as well as private label manufacture.

OEM manufacture includes wide range of services, such as label design, product packaging, instructions for use and certificates of analysis (and other necessary documents), as well as reagents, solutions and other products manufactured according to your recipes. Our employees are ready to utilize their knowledge and experience in order to provide the best service during all stages of arranging this kind of business cooperation.

BioGnost guarantees the quality of OEM products with many years of experience and successful cooperations with domestic and foreign business partners. We can manufacture dyes, various solutions and reagents in packagings ranging from 10 ml bottles to 1000 l containers.





## ACRIDINE ORANGE, C.I. 46005

Basic Orange 14

For staining acid mucins, apoptosis detection, differential staining of RNA and DNA

Used in several fluorescent histochemical procedures such as the Bertalanffy differential staining of DNA and RNA. Also used for staining mucin and for detection of apoptosis.

	packaging	product code
• Acridine Orange, C.I. 46005	25 g	AO-P-25

## ALCIAN BLUE 8 GX, C.I. 74240

Ingrain Blue 1, BSC certified

For staining acid mucopolysaccharides according to Scott, Mowry and Dorling

Used for detecting glycosaminoglycans in mucins using pH and electrolytic processes. It is often used for staining amyloids, cysteines and polychromatic staining of mast cells.

	packaging	product code
• Alcian Blue 8 GX, C.I. 74240	5 g	CA8GX-P-5
• Alcian Blue 8 GX, C.I. 74240	10 g	CA8GX-P-10
• Alcian Blue 8 GX, C.I. 74240	25 g	CA8GX-P-25

## ALCIAN YELLOW, C.I. 12840

Ingrain Yellow 1

Used for distinguishing types of glycosaminoglycans and for detection of neuro-secretory material

Also used as a counterstain in fast method for detection of *Helicobacter pylori* bacterium in gastric sections.

	packaging	product code
• Alcian Yellow, C.I. 12840	10 g	AY-P-10

## ANILINE BLUE, C.I. 42780

Methyl Blue, Cotton Blue, Ink Blue, China blue, Acid Blue 93, BSC certified

For staining connective tissue using Mallory and Gomori Trichrome methods

Integral part of polychromatic staining methods, such as Gomori, Mallory, and Masson methods.

	packaging	product code
• Aniline Blue, C.I. 42780	25 g	CAB-P-25

## AMIDO BLACK 10B, C.I. 20470

Naphthol blue black, Acid Black 1

For collagen staining acc. to Van Gieson trichrome methods

Most commonly used for collagen staining. Also used in Puchtler-Swear method for hemoglobin and hemosiderin staining.

	packaging	product code
• Amido Black 10B, C.I. 20470	10 g	AMB-P-10
• Amido Black 10B, C.I. 20470	25 g	AMB-P-25

## AURAMINE O, C.I. 41000

Basic Yellow 2, BSC certified stain

For staining acid-fast bacteria

Most commonly used with Rhodamine B in fluorescence staining of tuberculosis mycobacteria. It may also be used for staining other acid-fast bacteria.

	packaging	product code
• Auramine O, C.I. 41000	25 g	AU-P-25

## AZOCARMINE G, C.I. 50085

Rosinduline

For staining acc. to AZAN trichrome method

Stain for use in AZAN trichrome staining method acc. to Heidenhain. Can be used as substitute for Azocarmine B powder dye.

	packaging	product code
• Azocarmine G, C.I. 50085	5 g	AZC-P-5

## AZOPHLOXINE, C.I. 18050

Red 2G, Acid red 1

For staining acc. to Masson trichrome methods

Used instead of red Biebrich Scarlet and Fuchsin Acid stains in Masson and Masson Goldner trichrome staining.

	packaging	product code
• Azophloxine, C.I. 18050	5 g	AZO-P-5
• Azophloxine, C.I. 18050	25 g	AZO-P-25

## AZURE A, C.I. 52005

Methylene Azure

For metachromatic staining of mast cells

Also used for staining DNA and RNA and in Nocht method acc. to Lillie.

	packaging	product code
• Azure A, C.I. 52005	25 g	AA-P-25

## AZURE B, C.I. 52010

Azure I

For preparation of Romanowsky-Giemsa stain

Commonly used for staining nuclei or nuclear components. Recommended for staining viral inclusions and metachromatic mucin staining.

	packaging	product code
• Azure B, C.I. 52010	25 g	AZB-P-25

## AZURE C, C.I. 52002

Azure C blue

For staining cell nuclei and nuclear components, such as DNA

Also used for distinguishing viral inclusions and for metachromatic staining of mucin and neuroendocrine cells.

	packaging	product code
• Azure C, C.I. 52002	25 g	AC-P-25

## AZURE II

Azure II

For preparation of Romanowsky-Giemsa stain

Made by mixing Azure B and Methylene Blue stains in the same ratios. Integral component of Giemsa stain.

	packaging	product code
• Azure II	25 g	A2-P-25

## AZURE II EOSINATE

Azure II eosinate

For preparation of Romanowsky-Giemsa stain

Made by mixing equal ratios of Azure B, Methylene Blue and Eosin Y stains. An integral component of Giemsa stain.

	packaging	product code
• Azure II Eosinate	25 g	A2E-P-25

## BIEBRICH SCARLET, C.I. 26905

Croceine Scarlet, Ponceau B, Ponceau BS, BSC certified stain

For Masson trichrome staining

Used as cytoplasmic stain in Shorr's solution and instead of Fuchsin Acid stain in Masson trichrome stain.

	packaging	product code
• Biebrich Scarlet, C.I. 26905	25 g	BS-P-25

## BISMARCK BROWN Y, C.I. 21000

Bismark Brown Y, Vesuvine BA, BSC certified

For use in exfoliative cytology and histopathology

Metachromatic dye used in histology for staining tissue, acid mucin, cartilage and bone. An integral part of the Papanicolaou reagent for cytological diagnosis of cervical smears. Also used as a counterstain for Gentian violet.

	packaging	product code
• Bismarck Brown Y, C.I. 21000	25 g	BB-P-25

## BRILLIANT CRESYL BLUE, C.I. 51010

For use in hematology and histology

Most commonly used in hematology for reticulocyte staining. Also used as a selective dye for acid mucopolysaccharides.

	packaging	product code
• Brilliant Cresyl Blue, C.I. 51010	10 g	BCB-P-10
• Brilliant Cresyl Blue, C.I. 51010	25 g	BCB-P-25

## CARMINE, C.I. 75470

Natural Red 4, Cochineal, Nacarat, carminic acid and aluminum compound

For staining mucicarmines and glycogens

Carminic acid contains aluminum ions unlike carminic acid that may be manufactured from Carmine by adding acid or alkali.

	packaging	product code
• Carmine, C.I. 75470	5 g	CAR-P-5
• Carmine, C.I. 75470	10 g	CAR-P-10
• Carmine, C.I. 75470	25 g	CAR-P-25

## CARMINIC ACID, C.I. 75470

Natural Red 4

For staining mucicarmines and glycogen

Carminic acid is used for visualization of glycogens, mucicarmines, chromosomes and nuclei, but also as a marker for gastrointestinal tract flow of many mammals, including human babies. It is also used for preparing colored gel, i.e. marker injected into blood vessels for analyzing anatomy.

	packaging	product code
• Carminic acid, C.I. 75470	5 g	CARA-P-5
• Carminic acid, C.I. 75470	10 g	CARA-P-10
• Carminic acid, C.I. 75470	25 g	CARA-P-25

## CELESTINE BLUE, C.I. 51050

Celestine blue B, Mordant blue 14

For staining nuclei dark blue

Used as hematoxylin substitute in hematoxylin-eosin staining (HE). The dye become resistant to acid decolorization by creating a complex with iron as mordant.

	packaging	product code
• Celestine Blue, C.I. 51050	10 g	CB-P-10
• Celestine Blue, C.I. 51050	25 g	CB-P-25



## CHROMOTROPE 2R, C.I. 16570

Acid Red 29, Mordant Blue 80

For counterstaining cytoplasm in histopathology

Also used as a substitute for Eosin in the HE method and in trichrome stains, e.g. in a variant of Gomori trichrome stain.

	packaging	product code
• Chromotrope 2R, C.I. 16570	25 g	C2R-P-25

## CONGO RED, C.I. 22120

Direct Red 28, Kongorot, BSC certified stain

For staining of amyloids according to Highman and Puchtler

Commonly used for staining elastic fibers. Also used for detection of polysaccharides, such as cellulose.

	packaging	product code
• Congo Red, C.I. 22120	25 g	CR-P-25

## EOSIN B, C.I. 45400

Eosin B, Eosin Bluish, Imperial Red, Acid Red 91, BSC certified

For staining acc. to Romanowsky

Used for staining red blood cells, connective tissues and as a counterstain for the Gram stain. It is used for staining cellular granules, nuclei and microorganisms when combined with Azure A. For differential cellular staining of anterior pituitary cells.

	packaging	product code
• Eosin B, C.I. 45400	25 g	EB-P-25

## EOSIN Y, C.I. 45380

Eosin Yellowish, Acid Red 87, Eosin WS, BSC certified stain

Counterstain for hematoxylin, and for preparation of EA Pap stains and polychromatic hematological stains

Used for staining cytoplasm and cytoplasmic structures. Also used in HE staining, Romanowsky-Giemsa staining of blood smears and Papanicolaou staining in exfoliative cytology and in vital sperm staining.

	packaging	product code
• Eosin Y, C.I. 45380	25 g	EOY-P-25
• Eosin Y, C.I. 45380	100 g	EOY-P-100
• Eosin Y, C.I. 45380	500 g	EOY-P-500

## FAST GREEN F.C.F., C.I. 42053

Food Green 3, Solid Green F.C.F., 1724 Green, BSC certified stain

For trichrome staining acc. to Gomori and Masson

In addition to the above mentioned method, it is also used as a counterstain for cytoplasm and for staining of nuclei acc. to Feulgen.

	packaging	product code
• Fast Green F.C.F., C.I. 42053	25 g	FG-P-25

## FUCHSIN ACID, C.I. 42685

Acid fuchsine, Acid Violet 19, BSC certified stain

For staining connective tissue acc. to van Gieson and Mallory

Used in many methods of which the best known are van Gieson and Mallory methods for connective tissue and Masson polychrome method.

	packaging	product code
• Fuchsin Acid, C.I. 42685	25 g	FA-P-25

## FUCHSIN BASIC, C.I. 42510

Basic fuchsine, Basic Violet 14, BSC certified stain

For staining mucin, Negri bodies and acid-fast organisms

Used for nuclear and mucin staining in histology. It is also used in Ziehl-Neelsen method.

	packaging	product code
• Fuchsin Basic, C.I. 42510	25 g	FB-P-25
• Fuchsin Basic, C.I. 42510	100 g	FB-P-100

# Powdered dyes for use in microscopy

## FUCHSIN BASIC-SCHIFF, C.I. 42500

Pararosaniline HCl, Basic Red 9, BSC certified stain

Used for P.A.S. (Periodic Acid Schiff) staining, DNA staining acc. to Feulgen and acid-fast bacteria staining

Also used for manufacture of Schiff reagent and for polychromatic staining of histological samples.

Visualizing agent in enzymatic histochemistry, and it is used for detecting surface B antigens of pancreatic hepatitis B cells.

	packaging	product code
▪ Fuchsin Basic - Schiff, C.I. 42500	25 g	FBS-P-25
▪ Fuchsin Basic - Schiff, C.I. 42500	50 g	FBS-P-50

## GENTIAN VIOLET, C.I. 42555

Crystal Violet, Methyl Violet 10B, BSC certified stain

For bacterial staining acc. to Gram

Used as a primary stain in staining procedures acc. to Gram and in several methods for staining chromosomes, chromatins and nucleoli.

	packaging	product code
▪ Gentian Violet, C.I. 42555	25 g	GV-P-25
▪ Gentian Violet, C.I. 42555	100 g	GV-P-100

## GIEMSA

BSC certified stain

Romanowsky dye for staining acc. to Pappenheim

Polychromatic dye used for identification of chromosomal damage and as a differentiating stain.

For staining blood smears, bone marrow, chromosomes, and for the diagnosis of malaria and other parasites.

	packaging	product code
▪ Giemsa	25 g	G-P-25
▪ Giemsa	50 g	G-P-50

## HEMATOXYLIN, C.I. 75290

Natural Black 1, BSC certified stain

For preparation of nuclear staining reagents

Mainly used for nuclear staining after the oxidation to hematein and formation of complexes with the appropriate mordant. For preparation of many solutions, such as Mayer, Harris, Weigert, Cole, and Carazzi hematoxylin solutions and their modifications.

	packaging	product code
▪ Hematoxylin, C.I. 75290	25 g	H-P-25
▪ Hematoxylin, C.I. 75290	100 g	H-P-100

## JANUS GREEN B, C.I. 11050

Diazine Green, BSC certified stain

For displaying mitochondria in living cells

Also used for staining of embryonic tissues and as a counterstain in the modified Ziehl-Neelsen method.

	packaging	product code
▪ Janus Green B, C.I. 11050	25 g	JG-P-25

## JENNER STAIN

Jenner, BSC certified stain

For blood smears staining

Romanowsky polychromatic stain routinely used in hematology for staining blood smears.

	packaging	product code
▪ Jenner Stain	25 g	JS-P-25

## POTASSIUM PERMANGANATE

Potassium permanganate for use in microscopy

Synonym: Potassium (VII) manganate, Condy's crystals

Oxidation properties of potassium permanganate are used during fluorescence staining of acid-fast bacteria, where the  $\text{KMnO}_4$  is used as a counterstain.

	packaging	product code
▪ Potassium permanganate	50 g	KPH-P-50
▪ Potassium permanganate	100 g	KPH-P-100
▪ Potassium permanganate	500 g	KPH-P-500

## LEISHMAN STAIN

Eosin-polychrome Methylene Blue

For blood smears staining

Romanowsky polychromatic dye. Commonly used to distinguish and identify leukocytes and malaria parasites.

	packaging	product code
• Leishman Stain	25 g	LS-P-25

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

Acid Green 5, Pencil Green SF, BSC certified stain

For counterstaining acc. to Papanicolaou and Masson trichrome methods

Routine procedure involves staining of collagen fibers in histology. Used in Masson trichrome method and Papanicolaou method.

	packaging	product code
• Light Green S.F., C.I. 42095	25 g	LG-P-25

## MALACHITE GREEN, C.I. 42000

Malachite Green Oxalate, Basic Green 4, Victoria Green, BSC certified stain

For bacterial spores staining

Used in Gimenez stain for *Rickettsia* and *Helicobacter* bacteria. Also used for detecting bacterial infections. Component of counterstain TB Malachite Green reagent used in TB-Stain Cof kit.

	packaging	product code
• Malachite Green, C.I. 42000	10 g	MAG-P-10
• Malachite Green, C.I. 42000	25 g	MAG-P-25

## MAY-GRUENWALD

May-Gruenwald

For blood smears and bone marrow staining

May-Gruenwald polychromatic dye is one of Romanowsky dyes. It is used to stain smears of peripheral blood and bone marrow. Often combined with Giemsa stain.

	packaging	product code
• May-Gruenwald	25 g	MG-P-25
• May-Gruenwald	50 g	MG-P-50

## METANIL YELLOW C.I. 13065

Acid yellow 36

For staining cytoplasm, muscle connectors, and identifying parietal cells of gastric glands

Metanil Yellow dye is used as cytoplasmic dye in various polychromatic methods. Combined with P.A.S. method it is used for visualization of ciliary muscles connectors. Metanil Yellow-P.A.S.-Toluidine Blue staining enables identification of parietal cells in gastric glands and in gastric epithelium.

	packaging	product code
• Metanil Yellow, C.I. 13065	25 g	MEY-P-25
• Metanil Yellow, C.I. 13065	50 g	MEY-P-50
• Metanil Yellow, C.I. 13065	100 g	MEY-P-100

## METHYL GREEN, C.I. 42590

For staining nuclei green

Used in histology and cytology for staining (DNA) nuclei green, most commonly in combination with Fuchsin Acid powder dye as contrasting dye. Also used in enzymatic histochemistry.

	packaging	product code
• Methyl Green, C.I. 42590	25 g	MGR-P-25

## METHYL VIOLET, C.I. 42535

Methyl Violet 2B, Basic Violet 1, BSC certified stain

For bacterial staining acc. to Gram

Alternative to Gentian violet stain in the Gram staining for classification of bacteria. It is sometimes used as a metachromatic stain to detect amyloids. It stains chromosomes when combined with iodine, and it stains chromatin and nucleoli when combined with iodine and Gentian Violet stain.

	packaging	product code
• Methyl Violet, C.I. 42535	25 g	MV-P-25

# Powdered dyes for use in microscopy

## METHYLENE BLUE, C.I. 52015

Basic Blue 9, BSC certified stain

For staining acid-fast bacteria and for staining acc. to Wright

Used for the preparation of Romanowsky polychromatic methylene blue and as a part of polychromatic stain for staining of bone marrow, animal and plant material. Methylene Blue is a counterstaining dye in staining of acid-fast bacteria acc. to Ziehl-Neelsen, which uses Loeffler Methylene Blue reagent.

	packaging	product code
• Methylene Blue, C.I. 52015	25 g	MB-P-25
• Methylene Blue, C.I. 52015	100 g	MB-P-100

## METHYLENE GREEN, C.I. 52020

Methylene Green, BSC certified stain

For staining nuclei green

Methylene Green is used to stain nuclei green and as a counterstain to red and violet dyes.

	packaging	product code
• Methylene Green, C.I. 52020	25 g	MEG-P-25

## NEUTRAL RED, C.I. 50040

Basic Red 5, BSC certified stain

For supravital staining of blood cells using Neutral Red-Janus Green B method

Used for nuclear staining. May be used as a counterstain in modified staining method acc. to Gram.

	packaging	product code
• Neutral Red, C.I. 50040	25 g	NR-P-25

## NIGROSINE WS, C.I. 50420

Nigrosine water soluble, Nigrosine B

For use in microbiology and cytology

Used as negative staining in microbiology for observing non-stained bacteria, fungi and protists.

Also used in cytology for better visualization of sperm vitality.

	packaging	product code
• Nigrosine WS, C.I. 50420	25 g	NGR-P-25

## NUCLEAR FAST RED, C.I. 60760

Kernechtrot

For staining nuclei red

Used for staining nuclei by creating complex with aluminum. Used in staining methods according to Peris Dorling, counterstaining in Retikulin Contrast kit and in many other special stains kits. Also used for staining sperm and in PCR analyses.

	packaging	product code
• Nuclear Fast Red, C.I. 60760	5 g	NF-P-5

## OIL RED O, C.I. 26125

Sudan Red 5B, BSC certified stain

For staining lipids

Oil Red stain is intended for various methods of staining lipids in microscopy. Frozen samples should be used because the solvent dissolves lipids during processing and deparaffinization.

	packaging	product code
• Oil Red O, C.I. 26125	25 g	ORO-P-25

## ORANGE G, C.I. 16230

Acid Orange 10, Acid Fast Orange G, BSC certified stain

For staining keratin acc. to Papanicolaou, counterstain for hematoxylin

Component of many biological stains, usually as a cytoplasmic stain. In exfoliative cytology it is used in Papanicolaou methods, and in histopathology it is an integral part of the Mallory connective tissue stain. Used for staining acidophilic cells of the pituitary gland, keratins and mucosa.

	packaging	product code
• Orange G, C.I. 16230	25 g	OG-P-25
• Orange G, C.I. 16230	100 g	OG-P-100

## ORANGE II, C.I. 15510

Acid Orange 7, BSC certified stain

Used as a counterstain, as a substitute for Orange G

Currently used for quantitative histochemical assessment of protein. It is also used as a part of polychromatic stains acc. to Kalter.

	packaging	product code
• Orange II, C.I. 15510	25 g	O2-P-25

## ORCEIN, C.I. (ed.1) 1242

Natural Red 28, Orcein Synthetic

For staining elastic tissues and antigen of the hepatitis B virus

Used for visualization of chromosomes, elastic fibers, antigen of the hepatitis B virus and deposits of copper bound to proteins.

	packaging	product code
• Orcein, C.I. (ed.1) 1242	5 g	ORC-P-5
• Orcein, C.I. (ed.1) 1242	10 g	ORC-P-10

## PHLOXINE B, C.I. 45410

Acid Red 92, Eosin 10B, Eosin Blue, BSC certified stain

For Methylene Blue-Phloxine staining and staining keratin and mucus acc. to Kreyberg

Standard histopathological stain containing Floxine B is the Lendrum floxine-tartrazine selective staining of viral inclusions and other dense structures. Along with Eosin Y it is used for preparing alcoholic solution for cytoplasmic staining, BioGnost's Eosin Contrast, and Eosin Contrast PLUS solutions.

	packaging	product code
• Phloxine B, C.I. 45410	25 g	PB-P-25

## PONCEAU S, C.I. 27195

Acid Red 112, Fast Ponceau 2B

For use in electrophoresis

It is used for staining of protein adsorbed to the nitrocellulose membrane.

	packaging	product code
• Ponceau S, C.I. 27195	25 g	PS-P-25

## PYRONINE B, C.I. 45010

Pyronine B, BSC certified stain

For bacterial, molds and RNA staining

For staining proteins adsorbed to the nitrocellulose membrane.

	packaging	product code
• Pyronine B, C.I. 45010	25 g	PYB-P-25

## RESORCINOL, C.I. 76505

Resorcin, 1.3-benzendiol

For use in Seliwanoff's test

Used for differentiation between aldoses and ketoses in Seliwanoff's test by staining ketose sugars dark red. Also used as antiseptic and disinfectant.

	packaging	product code
• Resorcinol, C.I. 76505	25 g	RES-P-25

## RHODAMINE B, C.I. 45170

Basic Violet, Acid Red 52

For staining acid-fast bacteria

Used in combination with Auramine O for staining *Mycobacterium tuberculosis* using fluorescence method. It can also be used for staining other acid-fast bacteria using the same method.

	packaging	product code
• Rhodamine B, C.I. 45170	25 g	RHB-P-25

# Powdered dyes for use in microscopy

## RHODANINE

DMAB-Rhodanine

For staining deposits of copper bound to proteins

Used for staining deposits of copper in liver hepatocytes during Wilson's disease and chronic diseases of bile.

	packaging	product code
• Rhodanine	5 g	RHO-P-5

## ROSE BENGAL, C.I. 45440

Acid Red 94, BSC certified stain

For staining in microscopy and histology

Used in several standard microscopy methods for detecting soil bacteria and foraminifera in marine sediments. It is also used for marking the Brucella antigens in agglutination tests for detection of brucellosis.

	packaging	product code
• Rose Bengal, C.I. 45440	25 g	RB-P-25

## SAFRANIN O, C.I. 50240

Basic Red 2, Safranin T, Phenazinium, BSC certified stain

For staining in microscopy and histology

Counterstain in the Gram method for detecting Gram-negative bacteria. Also used for staining bacterial spores, demonstration of glycosaminoglycans and nuclei in human and animal samples.

	packaging	product code
• Safranin O, C.I. 50240	25 g	SO-P-25

## SUDAN III, C.I. 26100

Solvent Red 23, Sudan G, Fat Ponceau G, BSC certified stain

For lipid staining acc. to Lillie-Ashburn

Besides lipid staining it is also used for staining other hydrophobic material in different samples and preparations.

	packaging	product code
• Sudan III, C.I. 26100	25 g	S3-P-25

## SUDAN IV, C.I. 26105

Solvent Red 24, Scarlet Red, Biebrich Scarlet R, Fat Ponceau

For staining lipids acc. to Churukian's modification of Lillie-Ashburn's method

For staining lipids acc. to Lillie-Ashburn. Used as substitute for Oil Red O, as well as staining fat deposits in preadipocytes and lipids in atherosclerotic lesions.

	packaging	product code
• Sudan IV, C.I. 26105	25 g	S4-P-25

## SUDAN BLACK B, C.I. 26150

Sudan Black, Solvent Black 3, Fat Black HB

For staining lipids and other hydrophobic materials

For staining neutral triglycerides and lipids in frozen tissue sections and certain lipoproteins in paraffin tissue sections. Used for staining myelins, bacterial lipids, free cholesterol and analysis of fat in stool.

	packaging	product code
• Sudan Black B, C.I. 26150	5 g	SB-P-5
• Sudan Black B, C.I. 26150	10 g	SB-P-10

## TOLUIDINE BLUE O, C.I. 52040

Basic Blue 17, Tolonium Chloride, BSC certified stain

For staining mast cells, cartilage and Nissl body in the spinal cord

Used for the demonstration of amyloids, nuclei, plant DNA, and staining frozen sections and animal material.

	packaging	product code
• Toluidine Blue O, C.I. 52040	25 g	TB-P-25
• Toluidine Blue O, C.I. 52040	100 g	TB-P-100

## **WATER BLUE, C.I. 42755**

Acid Blue 22, BSC certified stain

For staining connective tissue acc. to Mallory and Gomori trichrome methods

An integral part of polychromatic stains such as Azan stain, Mallory stain, Mann stain and Masson Lendrum MSB technique.

	packaging	product code
• Water Blue, C.I. 42755	25 g	WB-P-25

## **WRIGHT'S STAIN**

Colorants de Wright, BSC certified stain

For staining peripheral blood smears and bone marrow

Part of polychromatic Romanowsky stains commonly used in hematology for staining blood smears and bone marrow samples. It is also used for counting white blood cells because it highlights the differences between them.

	packaging	product code
• Wright's Stain	25 g	WS-P-25

## **XYLIDINE PONCEAU, C.I. 16150**

Ponceau 2R, Ponceau de Xylidine, BSC certified stain

For Masson trichrome staining

It is used for Masson trichrome staining and gives a slight orange tint to red-colored cytoplasmic structures.

	packaging	product code
• Xylidine Ponceau, C.I. 16150	25 g	XP-P-25

**Note: contact us for information about larger and more affordable packagings (500 g and larger).**

# Laboratory diagnostics

Laboratory diagnostics product range includes high quality products, such as glass, plastic and high quality metal products, sterile and non-sterile, for single use or multiple uses. It also includes more than 30 types of VitroGnost slides and slips, various sorts of cotton and high viscosity swabs, transport swabs, glass and plastic tubes, test tubes for centrifugation with conical bottom, cryotubes, PCR tubes and racks, loops, microtiter plates, Petri dishes, droppers, capillaries and pipette tips. The range also includes watch glasses, glass jars for staining samples (various dimensions) and appropriate metal racks.

For more info ask our sales team or visit our [web page](#).



# VITROGNOST®

## MICROSCOPE SLIDES FOR MICROSCOPY

VitroGnost microscope slides are an important part of modern diagnostics in histopathology, cytology, hematology and microbiology. Up until a few years ago only one type of microscope slides was used in all diagnostic procedures. Biomedical science has evolved since then, that is why modern diagnosticians use several dozens of various types of microscope slides that mutually significantly differ as far as quality and purpose are concerned.

Quality microscope slides must be in accordance with many international standards. That is why VitroGnost microscope slides are in accordance with such standards as ISO 8037-1:1986, ISO 719, DIN 12 116: class S2 and DIN ISO 695: class A2. Like all other diagnostic reagents used in medical microscopy, VitroGnost microscope slides meet the regulations stipulated by the European Commission for in vitro diagnostic devices and CE marking.

### CHEMICAL COMPOSITION AND PURITY FOR TOP QUALITY PROPERTIES

Quality of the slide material is the basic requirement for achieving top quality of the slide. The glass must be made of reliable compounds that secure top optical, physical and chemical properties.



High purity of the material and low amount of iron contribute significantly to top quality optical properties. Low amount of aluminum oxide enhances hardness of the surface and stability of molecular structure of the glass, while high amount of sodium oxide reduces oxidation; that in turn enhances durability. Slides with low amount of iron are white; slides containing higher amounts of iron are green.

It is extremely important that the slides remain flat and smooth because that enhances the contact with the tissue section and makes the sample adherence better. Purity level of the slide surface is equally important. Clean and flat slides demonstrate the Newton's rings effect, similar to oil spilled on sea surface. The effect vanishes after slides being touched with fingers because even a small amount of "dirt" loosens the contact between the slides. VitroGnost Super Grade slides have extremely clean surface.

Only properly cleaned microscope slides made of high quality glass can remain separated (not adhered), especially if stored without temperature fluctuations that may cause condensation of humidity and in turn cause the slides to adhere to each other. That is why slides of lower level quality have thin pieces of paper inserted between that prevent adherence (such as VitroGnost Standard or Economy Grade slides).

## DIMENSIONS, EDGES AND CORNERS

Dimensions of VitroGnost microscope slides are defined by the international ISO 8037/1:1986 standard that allows dimensions ranging from 75.0 to 76.0 mm (length) and 25.0 to 26.0 mm (width). Dimensions of microscope slides are considered to be 76 x 26 mm (approximately 3 x 1 in (76.2 x 25.4 mm)). Slides with cut edges are always a little oversized compared to those with polished edges because polishing the edges always reduces the size of surface.

Cut edges of glass slides are the simplest type of edges. If not handled with care, they can cause cuts. Abraded edges are achieved by polishing the cut edges, and polished edges are achieved with even finer polishing of abraded slides. The finest slides have double polished beveled edges. Cut slides have 90° corners. Abraded and polished slides can have both 90° and 45° corners. The 45° corners require additional processing and are always more expensive than the 90° ones. Their advantages are more pleasant handling, better protection against unwanted laboratory incidents and have better performance while being used with laboratory equipment. All double polished slides have 45° corners.

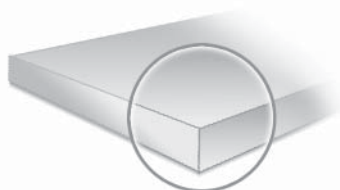
## SURFACE FINISHING

Microscope slides can have specially processed area for entering data. This is achieved by abrading a part of the slide 20 mm wide in order to create a 20 x 26 mm matted area adequate for entering data using a graphite pencil.



Slides can be matted on one or both sides; that enables adding data regarding the sample.

A more modern solution is coloring that part of the slide instead of matting it. Only white color was being used in the past, and in modern times more than 10 colors are used. Colored edges enable easier sorting and labeling (such as VitroGnost Color slides). Graphite pencils were used until recently, as well as special marking pens resistant to solvents or scratching using diamond pens.



cut edges  
corners 90°



edges  
corners 45°



beveled edges  
corners 45°



VitroGnost Color slides with colored edges enable easier sorting and marking

The modern age of automatization and informatization brought a necessity for specially applied colors on colored slides in order for purpose-specific printers to print the bar code (not only the basic patient and sample data). VitroGnost slides with colored areas are suitable for thermal transfer printing.

Since there are different printer manufacturers that use different inks and Thermal Transfer ribbons, it is recommended to test the print quality with different printer settings on different slides before use.

## ADHESIVE SLIDES

It was mentioned earlier that slide purity and flatness are important for tissue sample adhesion; the greater the surface, the cleaner the slide, and noncovalent attractive forces have a greater effect. In order to strengthen those forces, many agents were used, the most frequently used method was applying poly-L lysine and silane in order to apply positive charge to the slide and in turn enhance electrostatic forces toward tissues with negative charge.

That type of slide is called adhesive slide, such as VitroGnost PLL and VitroGnost SIL. Slides with greater positive charge density are VitroGnost Plus Ultra adhesive slides. They are important during processing tissues that are naturally hard to adhere on glass, when there is risk of sample falling off the slide or when applying high temperature during HIER antigen demasking is necessary.



# VitroGnost microscope slides for microscopy

## Super grade

### VITROGNOST® SUPER GRADE MICROSCOPE SLIDES

SUPER GRADE microscope slides for histology, pathology and cytology

Dimensions: 26x76x1 mm

VitroGnost Super Grade microscope slides of the highest quality and highest purity level ensure optimal conditions for microscopy and diagnostics.

	packaging	product code
• VitroGnost Super Grade microscope slides, cut edges, 90° corners°	50 pcs	10117102
• VitroGnost Super Grade microscope slides, cut edges, frosted both sides, 90° corners°	50 pcs	10117107-1
• VitroGnost Super Grade microscope slides, polished edges, 90° corners°	50 pcs	10117101P
• VitroGnost Super Grade microscope slides, polished edges, frosted both sides, 90° corners°	50 pcs	10117107P
• VitroGnost Super Grade microscope slides, polished edges, 45° corners°	50 pcs	10127101P
• VitroGnost Super Grade microscope slides, polished edges, frosted both sides, 45° corners°	50 pcs	10127107P
• VitroGnost Super Grade microscope slides, beveled edges, 45° corners°	50 pcs	10127101A
• VitroGnost Super Grade microscope slides, beveled edges, frosted both sides, 45° corners°	50 pcs	10127107A

### VITROGNOST® COLOR SUPER GRADE MICROSCOPE SLIDES

COLOR SUPER GRADE microscope slides for histology, pathology and cytology.

Dimensions: 26x76x1 mm

VitroGnost Super Grade microscope slides of the highest quality and highest processing level ensure optimal conditions for microscopy and diagnostics. Colored glass edges of slides enable easier sorting and marking.

Compatibility with Primera microscope slides printer makes marking even simpler.

	packaging	product code
• VitroGnost Color Super Grade microscope slides, polished edges, WHITE, 45° corners	50 pcs	10128105PW
• VitroGnost Color Super Grade microscope slides, polished edges, BLUE, 45° corners	50 pcs	10128105PB
• VitroGnost Color Super Grade microscope slides, polished edges, YELLOW, 45° corners	50 pcs	10128105PY
• VitroGnost Color Super Grade microscope slides, polished edges, GREEN, 45° corners	50 pcs	10128105PG
• VitroGnost Color Super Grade microscope slides, polished edges, PINK, 45° corners	50 pcs	10128105PP
• VitroGnost Color Super Grade microscope slides, polished edges, ORANGE, 45° corners	50 pcs	10128105PO
• VitroGnost Color Super Grade microscope slides, polished edges, LILAC, 45° corners	50 pcs	10128105PL
• VitroGnost Color Super Grade microscope slides, polished edges, PEACH, 45° corners	50 pcs	10128105PPe
• VitroGnost Color Super Grade microscope slides, polished edges, GREY, 45° corners	50 pcs	10128105PGr
• VitroGnost Color Super Grade microscope slides, polished edges, BROWN, 45° corners	50 pcs	10128105PBr
• VitroGnost Color Super Grade microscope slides, polished edges, AQUA, 45° corners	50 pcs	10128105PAq
• VitroGnost Color Super Grade microscope slides, polished edges, BEIGE, 45° corners	50 pcs	10128105PBe



# PRIMERA

## SLIDE PRINTER

Primera's Signature Slide Printer increases the efficiency of your lab by printing data directly onto slides using TT technology. Thermo Transfer technology eliminates the possibility of misidentification or usage of labels. The printer can print text, graphics as well as logos, and it is the only printer that can print in color using a special ribbon. The printout is resistant to xylene, alcohol, various reagents, stains, heat, and other chemicals.

It is easy to use because slides are stored in cartridges that keep the slides dust-free. The cartridges are easily changeable in case you need to use a different kind of slides. The level of slides remain in a cassette can be viewed through the cassette's LED backlit case. BioGnost's VitroGnost Color Super Grade microscope slides are composed of special combination of colors adapted to the printer. That in turn enables an optimal quality of printout. The printer is shipped with its proprietary PTLab software, available for Microsoft Windows operative systems (XP, Vista and 7), as well as Primera's all-in-one PC.

### KEY FEATURES AND BENEFITS:

- on-demand, full-color printing
- reduces inventory and purchasing activity
- prints directly onto slides
- small footprint
- PTLab software
- ink resistant to xylene, alcohol, formalin, various reagents, stains, heat and other chemicals
- compatible with VitroGnost Color Super Grade microscope slides

for VitroGnost  
Color slides



# VitroGnost microscope slides for microscopy

## Accessories for Primera slide printer

### PRIMERA THERMAL TRANSFER SLIDE PRINTER

For printing on microscope slides

Primera Thermal Transfer printer increases efficiency of histopathology laboratory and minimizes the possibility of slides mislabeling. The thermal transfer technology ensures the print resistant to xylene, xylene substitute, alcohol, formalin, various reagents, chemicals, stains, and heat.

	packaging	product code
• Primera Thermal Transfer slide printer	1 pc	078102
• Primera Thermal Transfer slide printer, with computer	1 pc	078102PC

### PRIMERA 100-COUNT SLIDE HOLDER BLUE

Slide holder for printer

Slide holder for printer made of blue plastic.

	packaging	product code
• Primera 100-count Slide Holder Blue	1 pc	078251

### PRIMERA RIBBON

Ribbon for Primera Thermal Transfer printer

Ribbon for Primera printer resistant to xylene, xylene substitute, alcohol, formalin, various reagents, chemicals, stains, and heat.

	packaging	product code
• Primera TC1 Monochrome Black Ribbon TuffCoat	1 pc	058105
• Primera Color STANDARD Ribbon	1 pc	058103

## Standard, economy grade

### VITROGNOST® STANDARD GRADE MICROSCOPE SLIDES

STANDARD GRADE microscope slides for hematology, pathology and cytology

Tissue paper interleaved. Dimensions: 26x76x1 mm

VitroGnost Standard Grade microscope slides are suitable for optical microscopy, routine procedures in hematology, cytology and pathology laboratories.

	packaging	product code
• VitroGnost Standard Grade microscope slides, cut edges, 90° corners	50 pcs	10217102
• VitroGnost Standard Grade microscope slides, cut edges, frosted both sides, 90° corners	50 pcs	10217107-1
• VitroGnost Standard Grade microscope slides, polished edges, 90° corners	50 pcs	10217101P
• VitroGnost Standard Grade microscope slides, polished edges, frosted both sides, 90° corners	50 pcs	10217107P
• VitroGnost Standard Grade microscope slides, polished edges, 45° corners	50 pcs	10227101P
• VitroGnost Standard Grade microscope slides, polished edges, frosted both sides, 45° corners	50 pcs	10227107P

### VITROGNOST® ECONOMY GRADE MICROSCOPE SLIDES

ECONOMY GRADE microscope slides for biochemistry and microbiology

Tissue paper interleaved. Dimensions: 26x76x1 mm

VitroGnost Economy Grade microscope slides are suitable for optical microscopy, routine procedures in biochemistry and microbiology laboratories.

	packaging	product code
• VitroGnost Economy Grade microscope slides, cut edges, 90° corners	50 pcs	7102
• VitroGnost Economy Grade microscope slides, cut edges, frosted one side, 90° corners	50 pcs	7105-1
• VitroGnost Economy Grade microscope slides, polished edges, 90° corners	50 pcs	7101
• VitroGnost Economy Grade microscope slides, polished edges, frosted one side, 45° edges	50 pcs	7105



## VITROGNOST® PLUS ULTRA ADHESIVE MICROSCOPE SLIDES

Positively charged adhesive microscope slides  
Dimensions: 26x76x1 mm

VitroGnost Plus Ultra adhesive glass is a new generation glass with a denser and stronger positive charge on the surface to achieve even better adhesion of the sample. VitroGnost Plus Ultra adhesive glass can be used for many scientific purposes, especially with tissues difficult to fixate, like breast tissue and samples of brain and skin.

	packaging	product code
• VitroGnost Plus Ultra adhesive microscope slides	72 pcs	103001A72

## VITROGNOST® PLL ADHESIVE MICROSCOPE SLIDES

Poly-L-lysine coated adhesive microscope slides  
Dimensions: 26x76x1 mm

Poly-L-lysine ensures covalent binding of the specimen to the microscope slide allowing better adhesion of the specimen onto glass. VitroGnost PLL adhesive microscope slides can be used with all samples regardless of the fixative used.

	packaging	product code
• VitroGnost PLL adhesive microscope slides	72 pcs	710972PLL

## VITROGNOST® SIL ADHESIVE MICROSCOPE SLIDES

Silanized adhesive microscope slides  
Dimensions: 26x76x1 mm

Positively charged silanized VitroGnost adhesive microscope slides ensure better adhesion of negatively charged specimens onto glass. VitroGnost SIL adhesive microscope slides can be used with all samples regardless of the fixative used.

	packaging	product code
• VitroGnost SIL adhesive microscope slides	72 pcs	710972SIL



# VitroGnost microscope slides for microscopy

Super grade, specijalna stakla za posebne namjene

## VITROGNOST® SPECIAL MICROSCOPE SLIDES

Microscope slides for microbiology

Dimensions: 26x76x1 mm

VitroGnost special microscope slides have cavities for specimens. The slides are of highest quality and purity level. DFA slides are used for direct fluorescent diagnostics of *Chlamydia trachomatis*.

	packaging	product code
• ChlamyGnost DFA microscope slides	50 pcs	103710950

# VitroGnost cover glasses for use in microscopy

## VITROGNOST® HEMO COVER GLASS FOR HEMOCYTOMETER

VitroGnost Hemo cover glass for hemocytometer, polished or cut edges, 0.4 mm thick

VitroGnost Hemo cover glass of different dimensions, 90° or 45° corners.

	size	packaging	product code
• VitroGnost cover glass for hemocytometer, polished edges, 90° corners	20x26 mm	10 pcs	10282026
• VitroGnost cover glass for hemocytometer, polished edges, 45° corners	22x22 mm	10 pcs	10232222
• VitroGnost cover glass for hemocytometer, polished edges, 45° corners	24x24 mm	10 pcs	10232424
• VitroGnost cover glass for hemocytometer, cut edges, 90° corners	20x26 mm	10 pcs	10262026
• VitroGnost cover glass for hemocytometer, cut edges, 45° corners	20x26 mm	10 pcs	10232026

## CHAMBER (HAEMOCYTOMETERS) FOR CELL COUNTING

Haemocytometers for cell counting according to Neubauer, Thoma and Fuchs-Rosenthal

Accurately manufactured cover glass with marked fields for cell counting.

	packaging	product code
• Neubauer chamber for counting thrombocytes and erythrocytes	10 pcs	2230-0001
• Thoma chamber for counting thrombocytes and erythrocytes	10 pcs	2230-0002
• Fuchs-Rosenthal chamber for counting cells in cerebrospinal fluid	10 pcs	2230-0003

## VITROGNOST® COVER GLASS - STANDARD PACK

0.13-0.17 mm thick microscope cover glass (Nr. 1.0)

VitroGnost cover glasses of various dimensions used in optical microscopy.

	size	packaging	product code
• VitroGnost cover glass	18x18 mm	200 pcs	10211818C
• VitroGnost cover glass	20x20 mm	200 pcs	10212020C
• VitroGnost cover glass	22x22 mm	200 pcs	10212222C
• VitroGnost cover glass	24x24 mm	200 pcs	10212424C
• VitroGnost cover glass	24x32 mm	100 pcs	10212432C
• VitroGnost cover glass	24x40 mm	100 pcs	10212440C
• VitroGnost cover glass	24x50 mm	100 pcs	10212450C
• VitroGnost cover glass	24x60 mm	100 pcs	10212460C

## VITROGNOST® CIRCULAR COVER GLASS

0.13-0.16 mm thick, circular microscope cover glass (Nr. 1.0)

Round shaped cover glass ensures optimal conditions for microscopy and diagnostics.

	size	packaging	product code
• VitroGnost Circular cover glass	∅ 8 mm	100 pcs	1031-08R
• VitroGnost Circular cover glass	∅ 10 mm	100 pcs	1031-10R
• VitroGnost Circular cover glass	∅ 12 mm	100 pcs	1031-12R
• VitroGnost Circular cover glass	∅ 14 mm	100 pcs	1031-14R
• VitroGnost Circular cover glass	∅ 16 mm	100 pcs	1031-16R
• VitroGnost Circular cover glass	∅ 18 mm	100 pcs	1031-18R
• VitroGnost Circular cover glass	∅ 20 mm	100 pcs	1031-20R
• VitroGnost Circular cover glass	∅ 22 mm	100 pcs	1031-22R
• VitroGnost Circular cover glass	∅ 24 mm	100 pcs	1031-24R

## VITROGNOST® SLIP COVER GLASS

Cover glass for use with automated coverslipper

VitroGnost Slip cover glass of exceptional smoothness and durability. Intended for use with automated coverslipper to shorten the time required for analysis and to provide an optimally mounted histological preparation.

	size	packaging	product code
• VitroGnost Slip cover glass	24x40 mm	100 pcs	10102440S
• VitroGnost Slip cover glass	24x50 mm	100 pcs	10102450S
• VitroGnost Slip cover glass	24x60 mm	100 pcs	10102460S

\* contact us for availability





## CONTAINERS FOR SAMPLE TRANSPORTATION

Container with cover for transportation of histological samples and organs

Round, oval-shaped containers with perfect seal plug made of high quality material ensuring reliable transport of samples and organs to the laboratory.

	packaging	product code
• Container for sample transportation 500 mL, with cover	1 pc	PK500
• Container for sample transportation 1000 mL, with cover	1 pc	PK1000
• Container for sample transportation 1200 mL, with cover	1 pc	PK1200
• Container for sample transportation 1500 mL, with cover	1 pc	PK1500
• Container for sample transportation 2000 mL, with cover	1 pc	PK2000
• Container for sample transportation 2500 mL, with cover	1 pc	PK2500
• Container for sample transportation 3000 mL, with cover	1 pc	PK3000
• Container for sample transportation 3750 mL, with cover	1 pc	PK3750
• Container for sample transportation 5000 mL, with cover	1 pc	PK5000
• Container for sample transportation 6000 mL, with cover	1 pc	PK6000
• Container for sample transportation 7000 mL, with cover	1 pc	PK7000
• Container for sample transportation 10 L, with cover	1 pc	PK10000
• Container for sample transportation 20 L, with cover	1 pc	PK20000

## POLYPROPYLENE MICROSCOPE SLIDE CONTAINERS WITH A SCREW CAP

Plastic microscope slide container with a screw cap for sampling and transport of histological and cytological specimens

Plastic containers for sampling and transport of histology, pathology and cytology specimens.

	packaging	product code
• Plastic container 20 mL with screw cap for specimen transport	1 pc	33101030R
• Plastic container 25 mL with screw cap for specimen transport	1 pc	33101025R
• Plastic container 30 mL with screw cap for specimen transport	1 pc	33101530R
• Plastic container 50 mL with screw cap for specimen transport	1 pc	33101050NB
• Plastic container 80 mL with screw cap for specimen transport	1 pc	33106080R
• Plastic container 150 mL with screw cap for specimen transport	1 pc	33102150WB
• Plastic container 250 mL with screw cap for specimen transport	1 pc	33102250NB
• Plastic container 500 mL with screw cap for specimen transport	1 pc	33102500NB





## POLYPROPYLENE CONTAINER WITH SCREW CAP FOR HISTOLOGY

Plastic container with screw cap for sampling and transporting histological and cytological samples

Plastic container for sampling and transporting samples for histology, pathology and cytology.

	graded mark to	volume to the top	packaging	product code
• Plastic container, 20 mL, for sample transport	20 mL	25 mL	1 pc	TP-20-20
• Plastic container, 40 mL, for sample transport	40 mL	50 mL	1 pc	TP-40-40
• Plastic container, 60 mL, for sample transport	60 mL	75 mL	1 pc	TP-60-60
• Plastic container, 90 mL, for sample transport	90 mL	95 mL	1 pc	TP-90-90
• Plastic container, 120 mL, for sample transport	120 mL	145 mL	1 pc	TP-120-120
• Plastic container, 250 mL, for sample transport	150 mL	275 mL	1 pc	TP-250-150
• Plastic container, 500 mL, for sample transport	300 mL	490 mL	1 pc	TP-500-300
• Plastic container, 1000 mL, for sample transport	700 mL	975 mL	1 pc	TP-1000-750



## HOLDERS AND TRIMMING KNIVES FOR HISTOPATHOLOGY SAMPLES

Stainless steel trimming knives with matching holders

Trimming knives for processing tissue samples during histopathology sampling, made of high quality stainless steel. 0.25 mm thick, 130 mm and 260 mm long. The knives are compatible with Feather holders.

	packaging	product code
• Stainless trimming knives, 130 mm	50 pcs	05TK130
• Stainless trimming knives, 260 mm	50 pcs	05TK260
• Holder for 130 mm knives	1 pc	DO 130
• Holder for 260 mm knives	1 pc	DO 260

## POLYETHYLENE DISSECTING BOARDS

Boards for pathohistological tissue dissection using polyethylene or polypropylene

High density polyethylene boards used for pathohistology tissue sampling. Blue polyethylene boards provide an excellent photography background.

	packaging	product code
• Polyethylene dissecting board, HDPE, white, dimensions 60x40x1.5 cm	1 pc	BC001
• Polyethylene dissecting board, HDPE, blue, dimensions 40x30x2.5 cm	1 pc	BC032
• Polyethylene dissecting board, HDPE, dark blue, dimensions 40x30x1.5 cm	1 pc	BC061CS





## POSTMORTEM SUTURE

Postmortem polyester suture

Postmortem suture is knitted with 5-7 polyester threads. Exceptionally resistant to stress.

It can be processed with wax, in white or beige.

	spool	product code
• Postmortem suture, polyester, white	length 450 m	KZS BA028
• Postmortem suture, polyester 1 mm, processed with wax, beige	length 335 m	KZS BA024
• Postmortem suture, polyester 1 mm, processed with wax, white	length 335 m	KZS BA041

## KNITTED (COTTON) GLOVES

White knitted protective gloves

Knitted gloves made from pure cotton.

	packaging	product code
• Knitted protective gloves, white, size S	1 pair	KZR S1
• Knitted protective gloves, white, size M	1 pair	KZR M1
• Knitted protective gloves, white, size L	1 pair	KZR L1
• Knitted protective gloves, white, size XL	1 pair	KZR XL1

## CUT RESISTANT PROTECTIVE GLOVES

Protective gloves made of exceptionally hard yarn, resistant to cuts

Protective ambidextrous gloves are made of Dyneema yarn, kevlar and stainless steel. Resistant to level 5 blade cuts, in accordance with European standard EN388. Protecting from sharp objects and comfortable to wear.

	packaging	product code
• Cut resistant protective gloves, Dyneema and steel, white, S	1 pair	ZRDS S1
• Cut resistant protective gloves, Dyneema and steel, white, M	1 pair	ZRDS M1
• Cut resistant protective gloves, Dyneema and steel, white, L	1 pair	ZRDS L1
• Cut resistant protective gloves, Dyneema and steel, white, XL	1 pair	ZRDS XL1
• Cut resistant protective gloves, kevlar, yellow, S	1 pair	ZRK S1
• Cut resistant protective gloves, kevlar, yellow, M	1 pair	ZRK M1
• Cut resistant protective gloves, kevlar, yellow, L	1 pair	ZRKL1
• Cut resistant protective gloves, kevlar, yellow, XL	1 pair	ZRK XL1
• Cut resistant protective gloves, Dyneema, grey, S	1 pair	ZRD S1
• Cut resistant protective gloves, Dyneema, grey, M	1 pair	ZRD M1
• Cut resistant protective gloves, Dyneema, grey, L	1 pair	ZRD L1
• Cut resistant protective gloves, Dyneema, grey, XL	1 pair	ZRD XL1
• Cut resistant protective gloves, stainless steel, S	1 pc	ZRSS S1
• Cut resistant protective gloves, stainless steel, M	1 pc	ZRSS M1
• Cut resistant protective gloves, stainless steel, L	1 pc	ZRSS L1
• Cut resistant protective gloves, stainless steel, XL	1 pc	ZRSS XL1





## CASSETTES WITHOUT LID - STANDARD

Standard cassettes without lids made of polyoxymethylene with writing area for easy sample marking, organizing and identifying. Available in 5 different colors.

	material	packaging	product code
• Standard cassettes without lid, white	P.O.M.	500 pcs	103W
• Standard cassettes without lid, yellow	P.O.M.	500 pcs	103Y
• Standard cassettes without lid, green	P.O.M.	500 pcs	103G
• Standard cassettes without lid, pink	P.O.M.	500 pcs	103P
• Standard cassettes without lid, blue	P.O.M.	500 pcs	103B

## EMBEDDING RING MOLDS

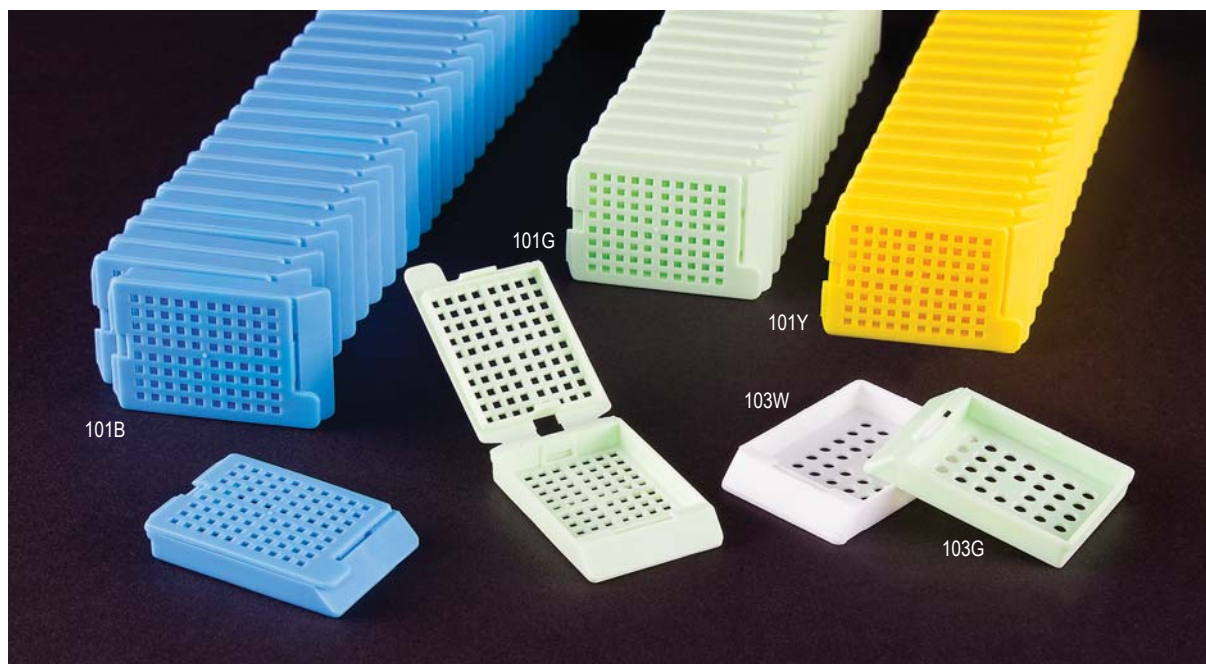
Embedding ring molds made of acrylonitrile butadiene styrene with writing area for easy sample marking, organizing and identifying.

	material	packaging	product code
• Embedding ring molds, white	ABS	500 pcs	201W

## BIOPSY CASSETTES WITH LID

Biopsy cassettes made of polyoxymethylene with writing area for easy sample marking, organizing and identifying. Available in 12 different colors.

	material	packaging	product code
• Biopsy cassettes with lid, white	P.O.M.	500 pcs	101W
• Biopsy cassettes with lid, blue	P.O.M.	500 pcs	101B
• Biopsy cassettes with lid, yellow	P.O.M.	500 pcs	101Y
• Biopsy cassettes with lid, green	P.O.M.	500 pcs	101G
• Biopsy cassettes with lid, pink	P.O.M.	500 pcs	101P
• Biopsy cassettes with lid, orange	P.O.M.	500 pcs	101O
• Biopsy cassettes with lid, lilac	P.O.M.	500 pcs	101L
• Biopsy cassettes with lid, peach	P.O.M.	500 pcs	101Pe
• Biopsy cassettes with lid, grey	P.O.M.	500 pcs	101Gr
• Biopsy cassettes with lid, brown	P.O.M.	500 pcs	101Br
• Biopsy cassettes with lid, aqua	P.O.M.	500 pcs	101Aq
• Biopsy cassettes with lid, beige	P.O.M.	500 pcs	101Be

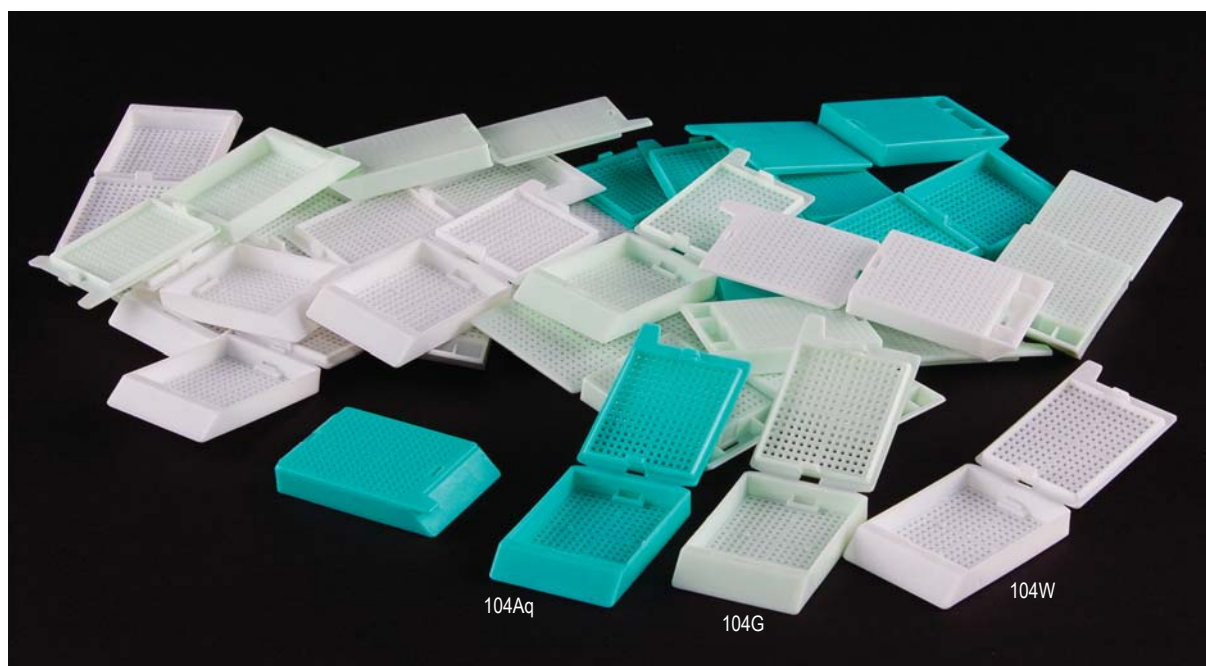




## HISTOLOGY CASSETTES WITH LID

Histology cassettes with lid made of polyoxymethylene with writing area for easy sample marking, organizing and identifying. Available in 12 different colors.

	material	packaging	product code
<b>TYPE 102 - closing the front side of the lid</b>			
• Histology cassettes with lid, white, type 102	P.O.M.	250 pcs	102W
• Histology cassettes with lid, blue, type 102	P.O.M.	250 pcs	102B
• Histology cassettes with lid, yellow, type 102	P.O.M.	250 pcs	102Y
• Histology cassettes with lid, green, type 102	P.O.M.	250 pcs	102G
• Histology cassettes with lid, pink, type 102	P.O.M.	250 pcs	102P
• Histology cassettes with lid, orange, type 102	P.O.M.	250 pcs	102O
• Histology cassettes with lid, lilac, type 102	P.O.M.	250 pcs	102L
• Histology cassettes with lid, peach, type 102	P.O.M.	250 pcs	102Pe
• Histology cassettes with lid, grey, type 102	P.O.M.	250 pcs	102Gr
• Histology cassettes with lid, brown, type 102	P.O.M.	250 pcs	102Br
• Histology cassettes with lid, aqua, type 102	P.O.M.	250 pcs	102Aq
• Histology cassettes with lid, beige, type 102	P.O.M.	250 pcs	102Be
<b>TYPE 107 - closing the back side of the lid</b>			
• Histology cassettes with lid, whiter, type 107	P.O.M.	500 pcs	107W
• Histology cassettes with lid, blue, type 107	P.O.M.	500 pcs	107B
• Histology cassettes with lid, yellow, type 107	P.O.M.	500 pcs	107Y
• Histology cassettes with lid, green, type 107	P.O.M.	500 pcs	107G
• Histology cassettes with lid, pink, type 107	P.O.M.	500 pcs	107P
• Histology cassettes with lid, orange, type 107	P.O.M.	500 pcs	107O
• Histology cassettes with lid, lilac, type 107	P.O.M.	500 pcs	107L
• Histology cassettes with lid, peach, type 107	P.O.M.	500 pcs	107Pe
• Histology cassettes with lid, grey, type 107	P.O.M.	500 pcs	107Gr
• Histology cassettes with lid, brown, type 107	P.O.M.	500 pcs	107Br
• Histology cassettes with lid, aqua, type 107	P.O.M.	500 pcs	107Aq
• Histology cassettes with lid, beige, type 107	P.O.M.	500 pcs	107Be



## SMALL BIOPSY CASSETTES WITH LID

Small biopsy cassettes with lid made of polyoxymethylene with writing area for easy sample marking, organizing and identifying.

	material	packaging	product code
• Small biopsy cassettes with lid, white	P.O.M.	250 pcs	104W
• Small biopsy cassettes with lid, blue	P.O.M.	250 pcs	104B
• Small biopsy cassettes with lid, yellow	P.O.M.	250 pcs	104Y
• Small biopsy cassettes with lid, green	P.O.M.	250 pcs	104G
• Small biopsy cassettes with lid, pink	P.O.M.	250 pcs	104P
• Small biopsy cassettes with lid, orange	P.O.M.	250 pcs	104O
• Small biopsy cassettes with lid, lilac	P.O.M.	250 pcs	104L
• Small biopsy cassettes with lid, peach	P.O.M.	250 pcs	104Pe
• Small biopsy cassettes with lid, grey	P.O.M.	250 pcs	104Gr
• Small biopsy cassettes with lid, brown	P.O.M.	250 pcs	104Br
• Small biopsy cassettes with lid, aqua	P.O.M.	250 pcs	104Aq
• Small biopsy cassettes with lid, beige	P.O.M.	250 pcs	104Be



# PRIMERA

## CASSETTES PRINTER

Primera's Signature Cassette Printer can significantly increase lab's efficiency. Labs can now print directly onto cassettes, eliminating handwriting or expensive labels while reducing the risk of misidentification. The printer can print text, graphics, logos, linear and 2D barcodes. It is the only printer that can print in color using a special ribbon. The printout is resistant to heat and various reagents and chemicals such as xylene, alcohol and stains.

The printer is designed for easy, hands-free operation with specially designed hoppers at the front of the unit for easy loading of cassettes. Cassettes are picked with exclusive robotic picking system. This system helps to reduce number of jams and does not depend on gravity. Signature Cassette Printer can be bought as a standalone, manual printer or as a complete, fully automated system. Upgrade from manual to automated system with robotics is easy and can be done at a later time. The printer is shipped with its proprietary PTLab software, available for Microsoft Windows operative systems (XP, Vista, 7, 8.x and 10).

### KEY FEATURES AND BENEFITS:

- on-demand, full-color printing
- eliminates handwriting and difficult to apply labels
- direct print onto cassettes
- small footprint
- PTLab software
- ink resistant to xylene, alcohol, formalin, stains and heat
- compatible with Simport cassettes





### PRIMERA CASSETTE PRINTER

For printing on cassettes

Primera Thermal Transfer printer increases efficiency of histopathology laboratory and minimizes the possibility of cassettes mislabeling. The thermal transfer technology ensures the print resistant to xylene, xylene substitute, alcohol, formalin, various reagents, chemicals, stains, and heat.

	packaging	product code
• Primera cassette printer	1 pc	078406
• Primera cassette printer, with computer	1 pc	078406PC

### PRIMERA SIGNATURE CASSETTE BINS (4-PACK)

Cassette bins for printer

Plastic cassette bin for printer.

	packaging	product code
• Primera Signature cassette bins (4-pack)	4 pcs	078265

### PRIMERA SIGNATURE CASSETTE AUTOLOADER

Robotic cassette autoloader for printer

Robotic cassette autoloader for printer enables complete automatization of printing on cassettes which in turn minimizes the possibility of an error and cassettes jam in the printer.

	packaging	product code
• Primera Signature cassette autoloader	1 pc	078408

### PRIMERA RIBBON

Ribbon for Primera Thermal Transfer printer

Ribbon for Primera printer resistant to xylene, xylene substitute, alcohol, formalin, various reagents, chemicals, stains, and heat.

	packaging	product code
• Primera TC1 Monochrome Black Ribbon TuffCoat	1 pc	058105
• Primera Color STANDARD Ribbon	1 pc	058103

## Padding, molds and filters for histology

### BIOPSY PADS FOR CASSETTES

Solvent resistant biopsy pads for small samples processing

Used for holding samples in place and preventing their loss during processing. Made of high quality polyurethane foam which allows solvents and paraffin flow but prevents loss of small biopsy samples. The pad color makes the sample visible.

	packaging	product code
• Biopsy pads for cassettes, blue	500 pcs	SP-500

### HISTOLOGY MOLDS

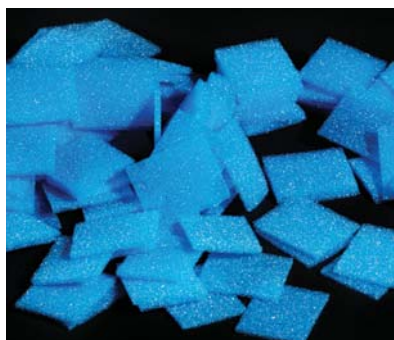
Histology molds made of stainless steel so they can be used repeatedly. They ensure optimal heat conductivity and easy extraction of the paraffin block. All edges are accurately rounded, providing optimal production of paraffin tapes and preventing paraffin wax leakage.

	material	packaging	product code
• Metal histology mold, 7x7x6 mm	INOX	1 pc	51050707
• Metal histology mold, 15x15x6 mm	INOX	1 pc	51051515
• Metal histology mold, 24x24x6 mm	INOX	1 pc	51052424
• Metal histology mold, 30x24x6 mm	INOX	1 pc	51053024
• Metal histology mold, 37x24x6 mm	INOX	1 pc	51053724
• Metal histology mold, 65x45x15 mm	INOX	1 pc	BO07-7010

### LID FOR CASSETTES

Cassette embedding stainless steel lid, standard.

	material	packaging	product code
• Stainless steel lid for cassettes, standard	INOX	1 pc	51050103



# Microtomy accessories

## Microtome blades for histology, high profile

### BIO/CUT MICROTOME BLADES FOR USE IN HISTOLOGY (HIGH PROFILE)

Bio/Cut H35C microtome blades for cryotome, high profile (wide)

	packaging	product code
• Bio/Cut H35C microtome blades for cryotome, high profile	50 pcs	Bio/Cut H35C

### HISTOBLADES DURAEDGE HIGH HISTOLOGY BLADES (HIGH PROFILE)

HistoBlades Duraedge High blades with Teflon coating - high profile

	packaging	product code
• HistoBlades Duraedge High high profile blades	50 pcs	7310

## Microtome blades for histology, low profile

### BIO/CUT MICROTOME BLADES FOR USE IN HISTOLOGY (LOW PROFILE)

Bio/Cut microtome blades of the next generation. Manufactured in order to provide most precise sectioning.

	packaging	product code
• Bio/Cut 22A microtome blades for ultra-thin sections, kidneys and lymph nodes, narrow blade	50 pcs	Bio/Cut 22A
• Bio/Cut 35A microtome blades for soft and hard tissues, low profile	50 pcs	Bio/Cut 35A
• Bio/Cut 35B microtome blades for soft tissues, low profile	50 pcs	Bio/Cut 35B
• Bio/Cut 35N microtome blades for thin sections, low profile	50 pcs	Bio/Cut 35N
• Bio/Cut 35R microtome blades for hard tissues, low profile	50 pcs	Bio/Cut 35R
• Bio/Cut 35S microtome blades for hard tissues, low profile	50 pcs	Bio/Cut 35S

### HISTOBLADES DURAEDGE HIGH HISTOLOGY BLADES (LOW PROFILE)

HistoBlades Duraedge High blades with Teflon coating - low profile

	packaging	product code
• HistoBlades Duraedge Low high profile blades	50 pcs	7223

### HISTOBLADES ENCORE LOW HISTOLOGY BLADES (LOW PROFILE)

Extremely sharp new generation Teflon coated blades - low profile

	packaging	product code
• HistoBlades Encore Low blades – low profile	50 pcs	7380





### HISTOLOGY BRUSHES

For microtome and cryostat

Camel hair brushes used for collecting paraffin block sections as well as for microtome and cryostat cleaning.

	packaging	product code
• Small brush for collecting biopsy sections	4 pcs	08-0822
• Small brush for collecting microtome sections	4 pcs	08-0823
• Medium brush for collecting microtome sections	4 pcs	08-0824
• Medium brush for microtome cleaning	2 pcs	08-0825
• Large brush for microtome cleaning	2 pcs	08-0826
• Set of cryostat brushes	2 pcs	08-0827
• Set of 5 brushes for cryostat (incl. 0822, 0823, 0824, 0825, 0827)	1 pc	08-0828
• Set of 5 brushes for microtome (incl. 0822, 0823, 0824, 0825, 0826)	1 pc	08-0829

### CRYOTOME OIL

Specially made oil of ideal viscosity and resistant to low temperatures

Oil for lubricating cryotome (cryostat) is characterized by its low viscosity level and ability to lubricate the metal parts at very low temperatures and provide protection from corrosion.

	packaging	product code
• Cryotome oil 50 mL	1 pc	KO-50
• Cryotome oil 100 mL	1 pc	KO-100

### MICROTOME OIL

Specially made oil of optimal viscosity for microtome.

	packaging	product code
• Microtome oil 50 mL	1 pc	MO-50
• Microtome oil 100 mL	1 pc	MO-100



# Jars and racks for staining microscopy samples



## EASYDIP PLASTIC STAINING JARS

EasyDip plastic jars for staining microscopic samples

Plastic jars in different colors can be used on their own or combined into sets of staining jars consisting of 3, 6, 12 or any other number of jars. Easy to clean, they can withstand temperatures ranging from -170 °C to 121 °C. Can be autoclaved. Resistant to alcohol and xylene, but not to phenol, iodine or ferric chloride. Ideal for special staining, cannot be broken like glass jars. The stand can contain up to 12 glass slides. The staining procedure requires 80 mL of reagent. Different colors of jars enable better marking and safer work. Ideal for microwave oven.

	packaging	product code
• Plastic jar EasyDip, blue	1 pc	M900-12B
• Plastic jar EasyDip, green	1 pc	M900-12G
• Plastic jar EasyDip, pink	1 pc	M900-12P
• Plastic jar EasyDip, white	1 pc	M900-12W
• Plastic jar EasyDip, yellow	1 pc	M900-12Y

## EASYDIP SLIDE STAINING RACK

EasyDip slide staining rack for 12 glass slides for EasyDip jars

EasyDip rack can contain up to 12 glass slides. It is dark grey and can be autoclaved. Designed for EasyDip jars, holds the glass slides in a vertical position, equipped with a cover that completely closes the jars during the staining procedure and significantly decreases the possibility of spillage and staining reagent evaporation. Ideal for microwave oven.

	packaging	product code
• EasyDip slide staining rack for 12 glass slides, dark grey	1 pc	M905-12DGY

## HOLDER FOR EASYDIP PLASTIC JARS

Aluminum holder for EasyDip plastic jars

Anodized aluminum holder is equipped with 6 compartments for firm positioning of EasyDip jars.

	packaging	product code
• Holder for EasyDip plastic jars	1 pc	M906



## STAINTRAY SLIDE STAINING SYSTEM FOR 10 SLIDES

StainTray slide staining system for staining 10 slides

Used in immunohistochemistry, hematology, cytology and microbiology

System for practical staining in immunohistochemistry, hematology, cytology and microbiology. Can be used as a moist chamber, and with a black cover can be used with fluorescence techniques. Bigger StainTray staining system for 10 slides has dimensions of 24x24x4.5 cm. May not be used with acetone.

	packaging	product code
• StainTray slide staining system for 10 slides, kit with transparent cover	1 pc	M918-1
• StainTray slide staining system for 10 slides, kit with black cover	1 pc	M918-2
• StainTray cover, transparent, for M918	1 pc	M919-1
• StainTray cover, black, for M918	1 pc	M919-2

## STAINTRAY SLIDE STAINING SYSTEM FOR 20 SLIDES

StainTray slide staining system for staining 20 slides

Used in immunohistochemistry, hematology, cytology and microbiology

System for practical staining in immunohistochemistry, hematology, cytology and microbiology. Can be used as a moist chamber, and with a black cover can be used with fluorescence techniques. Bigger StainTray staining system for 20 slides has dimensions of 64x76x9.2 cm. May not be used with acetone.

	packaging	product code
• StainTray slide staining system for 20 slides, kit with transparent cover	1 pc	M920-1
• StainTray slide staining system for 20 slides, kit with black cover	1 pc	M920-2
• StainTray cover, transparent, for M920	1 pc	M921-1
• StainTray cover, black, for M920	1 pc	M921-2

## GLASS STAINING JARS

Glass staining jars with covers for staining according to Coplin, Hellendahl and Schifferdecker

Glass staining jars with covers for laboratory diagnostic use at staining slides.

	packaging	product code
• Glass staining jars for 5 slides with cover, Coplin	1 pc	10130505
• Glass staining jars for 9 slides with cover, Hellendahl	1 pc	10130609
• Glass staining jars for 10 slides with cover, Schifferdecker	1 pc	10130510

## GLASS JARS AND METAL RACKS FOR STAINING 30 - 60 SAMPLES

Glass jars (transparent or brown) with covers for staining samples and corresponding racks

Glass staining jars with covers for laboratory diagnostic use at staining slides.

	packaging	product code
• Glass staining jars for 30 slides with cover (with rack, product code: 50101630)	1 pc	10130530C
• Glass staining jars for 30 slides with cover, brown (with rack, product code: 50101630)	1 pc	10130530B
• Glass staining jars for 60 slides with cover (with rack, product code: 50101660)	1 pc	10130560
• Rack for staining 30 slides, inox (for glass jars, product code: 10130530C and B)	1 pc	50101630
• Rack for staining 60 slides, inox (for glass jars, product code: 10130560)	1 pc	50101660



# Equipment for microscopic samples storage

## MICROSCOPE SLIDE MAILERS

Microscope slide mailers made of polypropylene. Ideal for microscope slide transport and storage.  
Made of thick, high-strength material.

	packaging	product code
• Microscope slide mailer for 1 slide, polypropylene	100 pcs	31011001MA
• Microscope slide mailer for 2 slides, polypropylene	100 pcs	31011002MA
• Microscope slide mailer for 2 slides, polypropylene, blue, slides in vertical position	100 pcs	31011102BB
• Microscope slide mailer for 2 slides, polypropylene, colorless, slides in vertical position	100 pcs	31011102BN
• Microscope slide mailer for 5 slides, polypropylene, colorless, slides in vertical position	100 pcs	31011005MA

## CARDBOARD MICROSCOPE SLIDES TRAY

Microscope slide tray made of cardboard used for holding and storing histology slides.

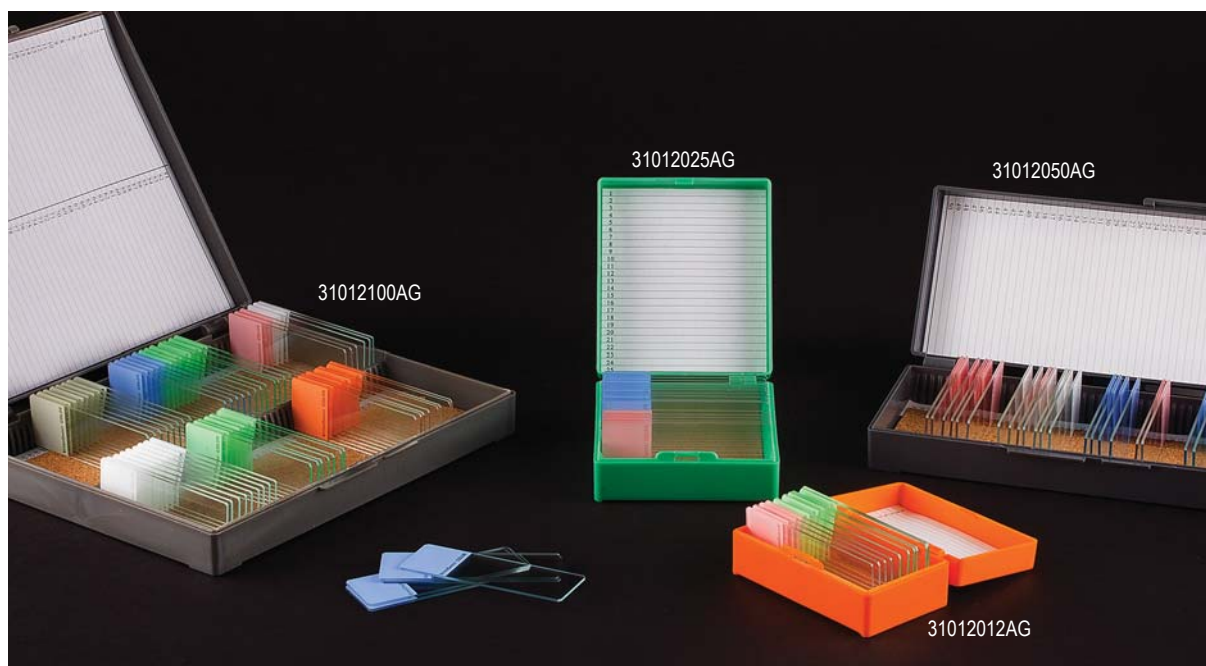
	packaging	product code
• Cardboard microscope slide tray for 20 slides, without cover	10 pcs	60001021
• Cardboard microscope slide tray for 20 slides, with cover and partitions	5 pcs	60001020
• Cardboard microscope slide tray for 24 slides, with cover and without partitions	5 pcs	60001024

## PLASTIC MICROSCOPE SLIDES TRAY

Microscope slide tray made of plastic used for holding and storing histology slides.

	packaging	product code
• Plastic microscope slide tray for 20 slides, without cover, white	1 pc	31013020W
• Plastic microscope slide tray for 20 slides, without cover, green	1 pc	31013020G
• Plastic microscope slide tray for 20 slides, without cover, pink	1 pc	31013020P
• Plastic microscope slide tray for 20 slides, without cover, blue	1 pc	31013020B





## MICROSCOPE SLIDE BOXES

Boxes for microscope slide storage. Compact and long-lasting boxes are the best choice for slide protection in laboratory. Enumerated stands make slide organization easier and simpler.

	packaging	product code
• Microscope slide box for 12 slides, ABS, orange	1 pc	31012012AO
• Microscope slide box for 25 slides, ABS, red, blue or green	1 pc	31012025AG
• Microscope slide box for 50 slides, ABS, grey	1 pc	31012050AG
• Microscope slide box for 100 slides, ABS, grey or white	1 pc	31012100AG

## COMPLETE STORAGE CABINETS

Complete storage cabinets for slides and paraffin blocks

Complete storage cabinets for histological slides, for archiving large numbers of histological slides and paraffin blocks.

	packaging	product code
• Complete storage cabinet for 13500 paraffin blocks	1 pc	044001
• Complete storage cabinet for 56000 histological slides	1 pc	044000
• Complete storage cabinet for 28000 histological slides and 4500 paraffin blocks	1 pc	044101

## STRUCTURAL PARTS FOR STORAGE CABINETS

Parts for storage cabinets for slides and paraffin blocks

Combining cabinet parts as needed, one can make complete cabinets for archiving histological slides and/or paraffin blocks.

	packaging	product code
• Modular base	1 pc	51040010
• Modular top	1 pc	51040040
• Modular blocks drawer, holds 900 blocks	1 pc	51040801
• Modular microscope slide drawer, holds 5600 slides	1 pc	51045001
• Modular storage drawer for slides in vertical position	1 pc	51040042

# Swabs, kits and brushes

## Cervical sampling tools

### CERVICAL BRUSH

Disposable brushes for cytological sample collection

Disposable Cervical Brushes provide simultaneous sampling of the endocervical, ectocervical and transformation zone cells. Cervical Brush is used in liquid based and conventional cytology. Hydrophobic brush material and a snap-off head for sampling facilitate transfer of the cell material to CitoFix container.

	packaging	product code
<ul style="list-style-type: none"><li>Cervical Brush for cervical samples collection</li></ul>	50 pcs	92014000

### CERVICAL BRUSH COMBI

Disposable brushes for ectocervical and endocervical samples collection with a snap-off head

Disposable Cervical Brush Combi enables collection of ectocervical and endocervical cells. Cervical Brush Combi is used in liquid based and conventional cytology. Hydrophobic brush material and a snap-off head for sampling facilitate transfer of the cell material to CitoFix container.

	packaging	product code
<ul style="list-style-type: none"><li>Cervical Brush Combi for cervical samples collection</li></ul>	50 pcs	92013000

### CERVICAL BRUSH S

Disposable brushes for vaginal, ectocervical and endocervical samples collection

Disposable Cervical Brush S have densely distributed bristles that optimally cover sampling area providing simultaneous collection of squamous, metaplastic and cylindrical cells.

	packaging	product code
<ul style="list-style-type: none"><li>Cervical Brush S for cervical samples collection</li></ul>	50 pcs	92011000

### CITO BRUSH

Disposable brushes for endocervical samples collection

Disposable Cito Brushes intended for professional sample collection from endocervical canal. They consist of a plastic stick and a very densely distributed bristles on top used for optimal covering of the sampling area.

	packaging	product code
<ul style="list-style-type: none"><li>Cito Brush for cervical samples collection</li></ul>	100 pcs	92010000
<ul style="list-style-type: none"><li>Cito Brush for cervical samples collection, sterile</li></ul>	100 pcs	92010000EO

### CERVICAL SPATULA

Disposable Ayre spatulas for ectocervical and endocervical sampling

Disposable spatulas intended for sampling cervical cells for Pap smear and detecting sexually transmitted diseases.

	packaging	product code
<ul style="list-style-type: none"><li>Cervical spatula</li></ul>	100 pcs	93021000





**SWABS**

## Sampling swabs

Swabs for collecting clinical samples.	packaging	product code
• Cotton swabs with wooden stick, 150 mm	100 pcs	91000150
• Cotton swabs with plastic stick, 150 mm	100 pcs	91020150
• Cotton swabs with plastic stick, 150 mm	100 pcs	91120150

**STERILE SWABS**

## Sterile sampling swabs

Sterile sampling swabs for clinical samples.	packaging	product code
• Cotton swab with wooden stick, 150 mm, individually wrapped, sterile	500 pcs	91000150DR-5
• Cotton swab with wooden stick, 150 mm, individually wrapped, sterile	100 pcs	91000150DR-1
• Rayon swab with plastic stick, 150 mm, individually wrapped, sterile	500 pcs	91020150DR-5
• Rayon swab with plastic stick, 150 mm, individually wrapped, sterile	100 pcs	91020150DR-1
• Cotton swab with plastic stick, 150 mm, individually wrapped, sterile	500 pcs	91120150DR

**STERILE TRANSPORT SWABS**

## Sterile transport sampling swabs, in polypropylene test tube 13x150 mm with label

Sterile sampling swabs in test tube, without transport medium for clinical samples.	packaging	product code
• Transport cotton swab with wooden stick in test tube, 13x150 mm, sterile	250 pcs	39100001RA
• Transport rayon swab with wooden stick in test tube, 13x150 mm, sterile	250 pcs	39100002RA
• Transport cotton swab with wooden stick in test tube, 13x150 mm, sterile, individually wrapped	100 pcs	39300001RA
• Transport rayon swab with wooden stick in test tube, 13x150 mm, sterile, individually wrapped	100 pcs	39300002RA
• Transport cotton swab with plastic stick in test tube, 13x150 mm, sterile	250 pcs	39110001RA
• Transport rayon swab with plastic stick in test tube, 13x150 mm, sterile	250 pcs	39110002RA
• Transport cotton swab with plastic stick in test tube, 13x150 mm, sterile, individually wrapped	100 pcs	39310001RA
• Transport rayon swab with plastic stick in test tube, 13x150 mm, sterile, individually wrapped	100 pcs	39310002RA

**Surgical scrub brushes****SURGICAL SCRUB BRUSHES, DRY**

## Disposable brushes for washing hands

Brushes for washing hands and disinfection, with sponge and nail cleaner, sterilized with ethylene oxide, without detergent.

	packaging	product code
• Surgical scrub brushes, dry, sterile	25 pcs	381000112

**SURGICAL SCRUB BRUSHES, IODINE**

## Disposable brushes for washing hands

Brushes for washing hands and disinfection, with sponge and nail cleaner, containing 1.1% polyvinylpyrrolidone iodine in detergent solution.

	packaging	product code
• Surgical scrub brushes with polyvinylpyrrolidone iodine	25 pcs	381000110

**SURGICAL SCRUB BRUSHES, CHLORHEXIDINE**

## Disposable brushes for washing hands

Brushes for washing hands and disinfection, with sponge and nail cleaner, containing 4% chlorhexidine in detergent solution.

	packaging	product code
• Surgical scrub brushes with chlorhexidine	25 pcs	381000111



## URINE TUBES, PIPETTES AND RACKS FOR URINE SEDIMENT ANALYSIS

Tubes with conical and retentive bottom for urine sedimentation, pipette for decanting and rack

Plastic polystyrene tubes with conical or retentive bottom for diagnostic use during urine sediment analysis. The tubes are graduated and resistant to centrifuge. Retentive bottom holds 0.2 mL of urine sediment after decanting.

UriGnost conic tube holds 1 mL of sediment after decanting with UriGnost decanting pipette.

	packaging	product code
• UriGnost tube, 15 mL, with screw cap, retentive bottom, vol. 0.2 mL, graduated at 2.5/5/10/12 mL	500 pcs	84020-2501
• UriGnost tube, 10 mL, conical bottom 16x103 mm, graduated at 1/2.5/5/10 mL	500 pcs	UGE10KD
• UriGnost pipette for decanting urine from UriGnost tubes, product code UGE10KD	500 pcs	UGP500
• Pipette tips 200 µL, Eppendorf/Universal type, yellow	1000 pcs	36010200B
• Rack for 10 UriGnost tubes with conical bottom, 16 mm diameter	1 pc	SUE001

For more information, see pages 54 and 68.

## URINE PLATES FOR URINE SEDIMENT ANALYSIS

Disposable plates used for microscopical analysis and counting elements of urine sediment

UriGnost 10 and Urised plates are designed for simple urine sediment analysis.

The plates are disposable. 10 analyses can be performed per each plate.

	packaging	product code
• UriGnost 10 plate, 50 pcs for 500 urine sediment analyses	50 pcs	UG10P-50
• UriGnost 10 plate, 100 pcs for 1000 urine sediment analyses	100 pcs	UG10P-100

For more information, see pages 54 and 68.



## FILTERS FOR CYTOCENTRIFUGES

Filter papers for cytocentrifuges with one or two holes

	packaging	product code
Filter paper perfect for centrifugation of minor specimen amount in cytocentrifuge.		
<ul style="list-style-type: none"> <li>Cytocentrifuge filter paper with one hole</li> </ul>	200 pcs	JC305
<ul style="list-style-type: none"> <li>Cytocentrifuge filter paper with two holes</li> </ul>	500 pcs	JC307

## HISTOLOGY FILTER PAPER - ROUND

Wrinkled, round filter papers for fine precipitate and fast filtration

Main function of filter paper in laboratory use is precipitate separation from the solution in which it is suspended. Use of filter paper depends on filtration type, solution properties and nature of precipitate that needs to be filtered out.

	packaging	product code
<ul style="list-style-type: none"> <li>Filter paper for fine precipitate, diameter 200 mm, round, wrinkled</li> </ul>	100 pcs	DP716306
<ul style="list-style-type: none"> <li>Filter paper for fine precipitate, diameter 300 mm, round, wrinkled</li> </ul>	100 pcs	DP716308
<ul style="list-style-type: none"> <li>Filter paper for fast filtration, diameter 200 mm, round, wrinkled</li> </ul>	100 pcs	DP716506
<ul style="list-style-type: none"> <li>Filter paper for fast filtration, diameter 300 mm, round, wrinkled</li> </ul>	100 pcs	DP716508

## HISTOLOGY FILTER PAPER - SHEETS

For general laboratory use

Main function of filter paper in laboratory use is precipitate separation from the solution where it is suspended. Filter papers in sheets are used in general laboratory filtration process.

	packaging	product code
<ul style="list-style-type: none"> <li>Filter papers for histology - sheets size 50x50 cm</li> </ul>	1 pc	22/N

## WATCH GLASS

Glass for laboratory use

Round, convex/concave glass that can be used in a variety of ways in the laboratory. Most often it is used as a surface to evaporate liquid or as a cover for labware to prevent content contamination.

	packaging	product code
<ul style="list-style-type: none"> <li>Watch glass diameter 50 mm</li> </ul>	1 pc	11750050
<ul style="list-style-type: none"> <li>Watch glass diameter 100 mm</li> </ul>	1 pc	11750100



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