



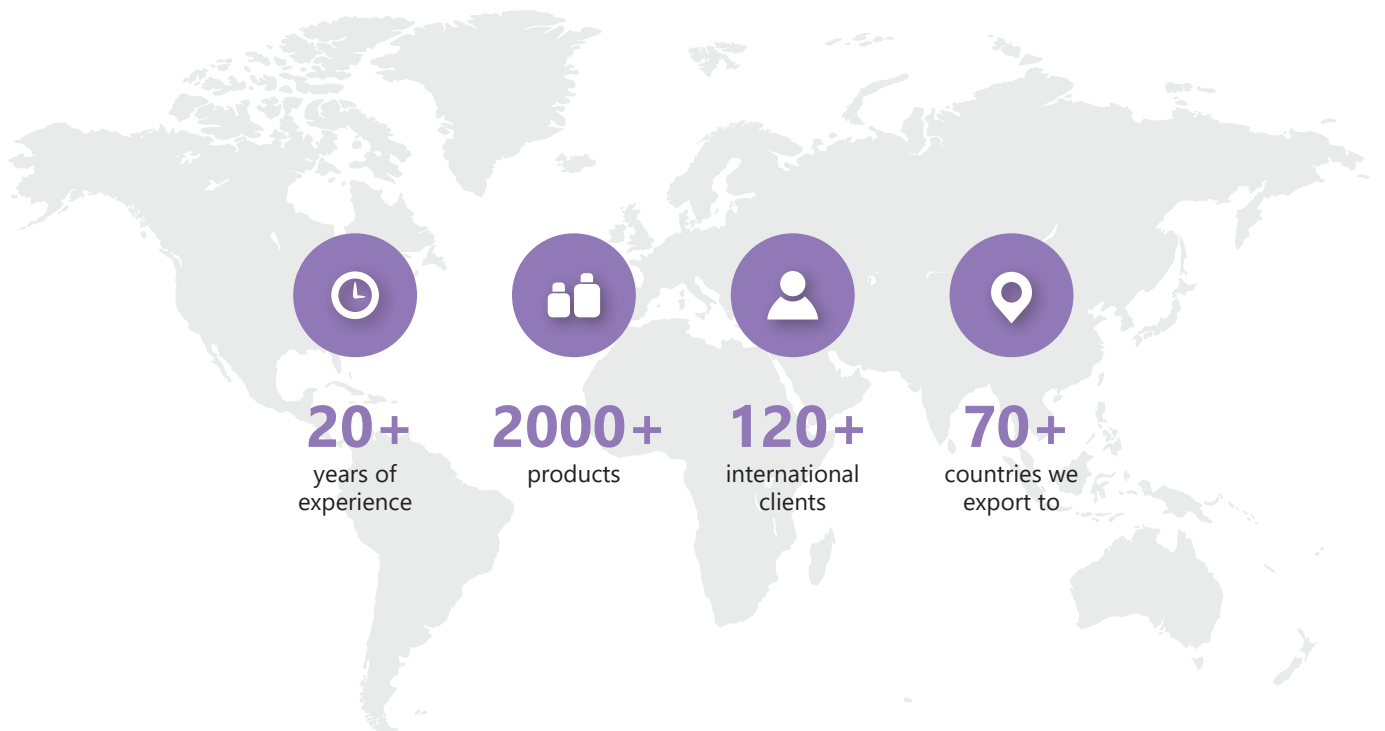
MICROSCOPY AND  
LABORATORY DIAGNOSTICS



# Our global presence

“ We manufacture products for use in histopathology, hematology, cytology, and microbiology with a wide national and international distribution network present in over 70 countries.

BioGnost offers only the best quality products at competitive prices and has one of the widest ranges of medical products in South-Eastern Europe. Our experience and flexibility towards the client makes us a sought-after business partner, which has been recognized on the global market.



Our entrepreneurship started in 1990 with the founding of the family company. Accelerated business growth began in 1998 with production of blood typing serums followed by the Croatian Ministry of Health granting BioGnost the License for the manufacture of medical products. We are proud of one of our biggest successes - relocating to our new commercial and manufacturing building in 2012. The site enabled an enhanced work environment, including a carefully devised warehouse structure, segmented production facilities with increased manufacturing capacity, and additional R&D capabilities.

“ We continue to build on the strong momentum from last year to create high-quality products and provide excellent customer service.

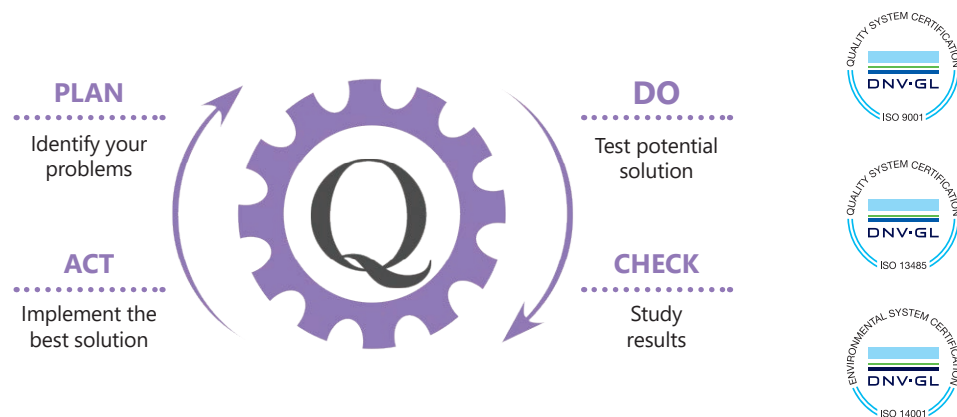
## Strategic priorities

Our mission is to create high-quality products and provide excellent services, as well as introduce new or expanded product lines and sales ranges in accordance with market dynamics and demands.

Product and service excellence makes BioGnost a desirable regional and international business partner. The key to success is the ever-expanding network of business partnerships, as well as recognizable social responsibility. In the coming years we plan to further our market expansion, additionally invest in research and development, and to become a competitive manufacturer in the fields of microbiological diagnostics and histopathology.

## ISO 9001, ISO 13485, ISO 14001

BioGnost's entire business is in accordance with international ISO 9001, ISO 13485 and ISO 14001 standards. The company implemented ISO standards more than 15 years ago, and is the first Croatian company to implement the ISO 13485 quality system for medical devices. Having fulfilled the requirements of these standards, the company is completely in accordance with national legal regulation and the European Union's Medical Device Regulation (EU 2017/745).



## CE, IVDR

BioGnost's products bear the CE mark, a certificate that confirms that the products are in accordance with the European Union's standards. They are declared as *in vitro* diagnostic medical devices (IVD) classified as "Class A" products (according to the Regulation (EU) 2017/746). No control of a Notified Body is required for this class; entire company business is in accordance with applicable regulations and standards.

## OEM manufacture

Besides products from our own sales range, we also offer OEM manufacture for your company. It includes a wide range of services, such as label design, product packaging, instructions for use and certificates of analysis, and products manufactured according to your specifications.

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### Legend:

● DG cargo in transport   ○ DG cargo only in air transport   ● temperature controlled cargo (transport regime 2-8°C)



# Fixation and processing

The initial part of clinical sample processing consists of products necessary for successful processing and obtaining optimal final results. That includes fixatives that preserve the tissue's structure, alcohols, paraffins that enable section cutting and finally, immersion oils for microscopy and mounting media for long-term storage of slides.

## Marking systems

Marking systems consist of dyes for permanent tissue marking and markers used for marking glass slides, cassettes and transport containers. Tissue marking dyes are used for marking and orientation of tissue samples intended for further histopathology processing.



**Tissue marking dyes, 5 color set**

TMD Tissue marking dyes set 5x50 mL contains 5 dyes for tissue marking: green, yellow, black, red and blue. The set includes wooden sticks and rack.

5x50 mL 3408-SET

**Tissue marking dyes, 7 color set**

TMD Tissue marking dyes set 7x50 mL contains 7 dyes for tissue marking: green, yellow, black, red, blue, orange and lilac. The set includes wooden sticks and rack.

7x50 mL 3408-SET-7

**Tissue marking dyes**

For marking and orientation of tissue samples.

Tissue marking dye, green	50 mL 100 mL 250 mL	3408-1-50 3408-1-100 3408-1-250
Tissue marking dye, yellow	50 mL 100 mL 250 mL	3408-2-50 3408-2-100 3408-2-250
Tissue marking dye, black	50 mL 100 mL 250 mL	3408-3-50 3408-3-100 3408-3-250
Tissue marking dye, red	50 mL 100 mL 250 mL	3408-4-50 3408-4-100 3408-4-250
Tissue marking dye, blue	50 mL 100 mL 250 mL	3408-5-50 3408-5-100 3408-5-250
Tissue marking dye, orange	50 mL 100 mL 250 mL	3408-6-50 3408-6-100 3408-6-250
Tissue marking dye, lilac	50 mL 100 mL 250 mL	3408-7-50 3408-7-100 3408-7-250

**Liquid Blocker (PAP pen)**

Liquid Blocker contains hydrophobic liquid as a water repellent barrier around specimens or sections. Useful in immunohistochemistry that uses small amounts of antiserum. Multiple specimens can be separated by drawn circles or lines applied to the same slide.

1 pc ML-1

**Duoline marker pen**

Professional marker pen for permanent labelling of cassettes, slides and transport containers. With fine and thick marker pen tip.

1 pc MD-1





## Formalin fixatives

Fixation is one of the most important steps in tissue processing, preventing tissue degradation and decomposition. Preserving tissue properties is important for detection of morphological and pathological changes in tissue samples.

### 4% NB Formaldehyde

10% neutral buffered and stabilized formalin solution, pH 7.0.

1000 mL	FNB4-1L
5000 mL	FNB4-5L
10000 mL	FNB4-10L
20000 mL	FNB4-20L



### 4% Formaldehyde

Stabilized 10% formalin solution.

1000 mL	F4-1L
5000 mL	F4-5L
10000 mL	F4-10L
20000 mL	F4-20L





### 10% NB Formaldehyde

25% neutral buffered and stabilized formalin solution, pH 7.0.

1000 mL	FNB10-1L
5000 mL	FNB10-5L
10000 mL	FNB10-10L
20000 mL	FNB10-20L



### ImmunoForm

Stabilized 10% formalin solution produced from paraformaldehyde without methyl alcohol. For use in histology and immunohistochemistry.

1000 mL	IMF-1L
5000 mL	IMF-5L
10000 mL	IMF-10L



### 10% Formaldehyde

Stabilized 25% formalin solution.

1000 mL	F10-1L
5000 mL	F10-5L
10000 mL	F10-10L
20000 mL	F10-20L



### Formaldehyde 37% for use in histology

100% formalin solution stable at low temperatures.

1000 mL	F37H-1L
5000 mL	F37H-5L
10000 mL	F37H-10L



### NB Formaldehyde concentrated 5x

Concentrated neutral buffered formalin for preparation of 10% buffered formalin (synonym: 4% buffered formaldehyde) solution, pH 7.0.

For preparation of 5 L of 4% buffered formaldehyde	1000 mL	FK5X-1L
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For preparation of 25 L of 4% buffered formaldehyde	5000 mL	FK5X-5L
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For preparation of 50 L of 4% buffered formaldehyde	10000 mL	FK5X-10L
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### DeHematin

Modified Kardasewitsch solution for depigmentation of tissues fixed in non-buffered formalin (after acid hematin occurs).

1000 mL	KO-OT-1L
5000 mL	KO-OT-5L



## Other fixatives

### BioFix

Methyl alcohol-based fixative for cryostat sections.

500 mL	BF-500
1000 mL	BF-1L



### BioFix C

Modified Carnoy's fixative based on ethyl alcohol, chloroform and acetic acid.

500 mL	BFC-500
1000 mL	BFC-1L
5000 mL	BFC-5L



### BioFix GL

Glyoxal-based fixative for use in histology.

500 mL	BFGL-500
1000 mL	BFGL-1L
5000 mL	BFGL-5L

### BioFix HD

Modified Hartmann/Davidson's fixative that enables rapid fixation and better visualization of lymph nodes. The results provide clearer nuclear details and minimize formalin pigment occurrence.

500 mL	BFHD-500
1000 mL	BFHD-1L
5000 mL	BFHD-5L



### BioForm S

Modified Schaeffer's buffered fixative solution of formaldehyde in methanol.

1000 mL	BIOS-OT-1L
5000 mL	BIOS-OT-5L



## Other fixatives

### Bouin's solution

Aqueous solution of picric acid, formaldehyde and acetic acid for tissue fixation and better visualization of lymph nodes.

100 mL	BOU-OT-100
1000 mL	BOU-OT-1L
5000 mL	BOU-OT-5L
10000 mL	BOU-OT-10L



### CitoFix

Alcoholic solution for fixation and transport of cytological samples.

1000 mL	CX-1L
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### CitoSpray

Solution for fixation of cytological smears in a spray bottle. Contains polyglycol which forms protective film when applied on cytological smear.

100 mL	CS-100
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### CitoSpray solution

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

1000 mL	CS-1L
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### Saccomanno's fixative

Solution for fixation and transport of cytological samples.

500 mL	SF-OT-500
1000 mL	SF-OT-1L
5000 mL	SF-OT-5L



## Decalcifying solutions

Decalcifiers most often contain inorganic or organic acids enabling rapid decalcification (i.e. calcium removal). Milder types of decalcifiers are formulated from chelating agents that are used for decalcification of more sensitive types of tissue.

### OsteoFast 1

Light blue fixative and decalcifying solution for bone and hard tissue in histology, based on formaldehyde and hydrochloric acid.

1000 mL OF1-OT-1L  
2500 mL OF1-OT-2.5L



### OsteoFast 2

Light yellow decalcifying solution for bone and hard tissue in histology, based on formic acid.

1000 mL OF2-OT-1L  
2500 mL OF2-OT-2.5L



### OsteoSens

Decalcifying solution for sensitive calcified tissues in histology, contains EDTA.

1000 mL OS-OT-1L  
2500 mL OS-OT-2.5L



## Dehydrating and rehydrating agents

Alcoholic solutions and absolute alcohol are ideal for histocytology and cytology processing, storing and transporting samples. They are also used for dehydration and rehydration of tested samples.

### Histanol 50

Denaturated 50% ethyl alcohol.

1000 mL	H50-1L
5000 mL	H50-5L
10000 mL	H50-10L



### Histanol 70

Denaturated 70% ethyl alcohol.

1000 mL	H70-1L
5000 mL	H70-5L
10000 mL	H70-10L



### Histanol 80

Denaturated 80% ethyl alcohol.

1000 mL	H80-1L
5000 mL	H80-5L
10000 mL	H80-10L



### Histanol 95

Denaturated 95% ethyl alcohol.

1000 mL	H95-1L
5000 mL	H95-5L
10000 mL	H95-10L



### Histanol 96

Denaturated 96% ethyl alcohol.

1000 mL	H96-1L
5000 mL	H96-5L
10000 mL	H96-10L



### Histanol 100

Denaturated 100% ethyl alcohol.

1000 mL	H100-1L
5000 mL	H100-5L
10000 mL	H100-10L



### Histanol EP 95

95% mixture of denaturated ethyl alcohol and isopropyl alcohol.

1000 mL	HEP95-1L
5000 mL	HEP95-5L
10000 mL	HEP95-10L



### Histanol EP 100

100% mixture of denaturated ethyl alcohol and isopropyl alcohol.

1000 mL	HEP100-1L
5000 mL	HEP100-5L
10000 mL	HEP100-10L



### Histanol EP 9010 NEW

Alcoholic solvent substituting standard ethanol series in processing, dewaxing and dehydrating.

1000 mL	HEP91-1L
5000 mL	HEP91-5L
10000 mL	HEP91-10L



### Histanol IP

Isopropyl alcohol for use in microscopy.

1000 mL	HIP-1L
5000 mL	HIP-5L
10000 mL	HIP-10L



### Histanol M

Methyl alcohol for use in microscopy.

1000 mL	HM-1L
5000 mL	HM-5L
10000 mL	HM-10L



### Histanol G

Glycerol for use in microscopy.

1000 mL	HG-1L
5000 mL	HG-5L
10000 mL	HG-10L



## Clearing and deparaffinization agents

Clearing agents are completely miscible with alcohol and paraffin, making them an ideal intermedium in histology and cytology processing. They are used multiple times during tissue processing and section staining; before embedding the tissue in paraffin, for deparaffinization before staining and before covering the stained section using medium for permanent preservation.

### BioClear

Xylene-based medium for use in histology and cytology.

1000 mL	BC-1L
2500 mL	BC-2.5L
5000 mL	BC-5L
10000 mL	BC-10L

### BioClear New

Xylene substitute, aliphatic hydrocarbon-based. Essentially no odor. For use in histology and cytology.

1000 mL	BCN-1L
2500 mL	BCN-2.5L
5000 mL	BCN-5L
10000 mL	BCN-10L





## Infiltration, embedding and demolding media

Paraffin wax is the most commonly used sample for infiltration, embedding and forming tissue blocks. It provides support to the tissue during microtome cutting.

### BioWax 52/54

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

1 kg	BW52/54-1
2 kg	BW52/54-2
10 kg	BW52/54-10

### BioWax 56/58

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

1 kg	BW56/58-1
2 kg	BW56/58-2
10 kg	BW56/58-10

### BioWax Blue

Blend of blue paraffin waxes with melting point at 56/58°C and added plastic polymers for optimal infiltration. Especially suitable for small tissue samples. Blue color provides better contrast enabling easier visualization during processing. It is also recommended for use in immunoperoxidase methods.

1 kg	BWB-1
2 kg	BWB-2
10 kg	BWB-10

### BioWax Plus 56/58

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

1 kg	BWPLUS-1
2 kg	BWPLUS-2
10 kg	BWPLUS-10

### Micro Clean

Solution in spray bottle for rapid and efficient paraffin residue removal from work surfaces and instruments.

100 mL	MC-OT-100
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## CryoFix Gel

Embedding matrix for cryosectioning of tissue samples known as OCT medium (optimal cutting temperature). Efficient at temperatures of -10°C and below. Available in 5 different colors.

CryoFix Gel	100 mL	CF-100
CryoFix Gel pink	100 mL	CFR-100
CryoFix Gel blue	100 mL	CFP-100
CryoFix Gel green	100 mL	CFZ-100
CryoFix Gel yellow	100 mL	CFY-100



## Cryo Spray

Medium in spray bottle for freezing histological samples.

200 mL 08-SPRAY-2



## DeMold Spray

Solution in spray bottle for easy removal of paraffin tissue blocks from the mold.

100 mL DS-100



## DeMold solution

Solution for refilling DeMold Spray bottle.

500 mL DS-500  
1000 mL DS-1L



## Tissue Soft

Solution for softening the tissue embedded in paraffin block before microtome sectioning.

500 mL TS-500  
1000 mL TS-1L





# Mounting and microscopy

Protection and preservation of stained samples generally require mounting with a suitable medium. For further examination of the sample, immersion oils are essential in providing a high resolution image during microscopical analysis at high magnification. Special cleaning solutions are used for removing oil residues from microscope lens and slides.

## Mounting media

Ten different covering and mounting media for permanent preservation of microscope slides

In order to prepare permanent sections, stained samples must be covered with a suitable mounting medium. One of the most important criteria is the refractive index similar to that of glass. Other criteria include a suitable solvent, polymer and optimal viscosity. After the sample is covered and a cover glass is mounted, the section is protected from external factors and remains preserved for a prolonged period of time. BioMount media do not crack or turn yellow during sample storage.





## BioGnost's synthetic BioMount media properties

PRODUCT NAME	SOLVENT	POLYMER	VISCOSITY @ 20°C (cSt, mPa)	REFRACTIVE INDEX @ 20°C (n <sub>p</sub> )	USAGE IN AUTOMATED COVER SLIP MACHINES
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 NEW*	xylene (BioClear)	S	200-300	1.5150-1.5180	✓
BIOMOUNT NEW	isoparaffin (BioClear New)	M	950-1050	1.4385-1.4395	-
BIOMOUNT NEW LOW	isoparaffin (BioClear New)	M	130-160	1.4345-1.4365	✓
BIOMOUNT	xylene (BioClear)	M	450-650	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 C	xylene (BioClear)	M	5000-5500	1.4910-1.4925	-

Legend: M – methacrylate, S – styrene (polystyrene)  
 \* does not contain harmful dibutyl phthalate plasticizer  
 \*\* contact us to find out how to decrease viscosity of a medium

## Xylene and styrene-based media for permanent mounting

### BioMount DPX

Moderate viscosity medium for permanent covering of microscope samples and mounting cover glass.

100 mL                    BM-100  
 250 mL                    BM-250  
 500 mL                    BM-500



### BioMount DPX High

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

100 mL                    BMH-100  
 250 mL                    BMH-250  
 500 mL                    BMH-500



### BioMount DPX Low

Low viscosity medium for permanent covering of microscope samples and mounting cover glass. Can be used in automatic cover slip machines.

100 mL                    BML-100  
 250 mL                    BML-250  
 500 mL                    BML-500



### BioMount DPX New

Low viscosity medium for permanent covering of microscope samples and mounting cover glass. Medium contains more environmentally friendly plasticizer instead of harmful dibutyl phthalate. Can be used in automatic cover slip machines.

100 mL                    BMLE-100  
 250 mL                    BMLE-250  
 500 mL                    BMLE-500





## Methacrylate and xylene substitute-based media for permanent mounting

### BioMount New

Moderate viscosity medium for permanent covering of microscope samples deparaffinized using xylene substitute-based medium, as well as xylene-based medium.

100 mL	BMN-100
250 mL	BMN-250
500 mL	BMN-500

### BioMount New Low

Very low viscosity medium for permanent covering of microscope samples deparaffinized using xylene substitute, as well as xylene.

100 mL	BMNL-100
250 mL	BMNL-250
500 mL	BMNL-500



## Methacrylate-based permanent mounting media

### BioMount

Low viscosity xylene-based medium for permanent covering of microscope slides and mounting cover glass.

100 mL	BMT-100
250 mL	BMT-250
500 mL	BMT-500



### BioMount M

Very low viscosity toluene-based medium for permanent covering of microscope samples and mounting cover glass.

100 mL	BMM-100
250 mL	BMM-250
500 mL	BMM-500



### BioMount High

Very high viscosity xylene-based medium for permanent covering of microscope samples and mounting cover glass.

100 mL	BMTH-100
250 mL	BMTH-250
500 mL	BMTH-500



## Additional permanent mounting media

### BioMount C

Very high viscosity medium for permanent covering of microscope slides and mounting cover glass.

100 mL	BMC-100
250 mL	BMC-250
500 mL	BMC-500

\* excellent synthetic substitute for natural covering media, such as Canada Balsam



## Water-based mounting media

PRODUCT NAME	SOLVENT	POLYMER	VISCOSITY @ 20°C (cSt, mPa)	REFRACTIVE INDEX @ 20°C (n <sub>D</sub> )	USAGE IN AUTOMATED COVER SLIP MACHINES
BIOMOUNT AQUA	water	PVP	700-1000	1.4145-1.4205	-



### BioMount Aqua

Water-based medium for covering microscope slides and mounting cover slips. With application in hematology, immunohistochemistry and immunocytochemistry with Fast-Red or AEC chromogens that require an aqueous mounting medium, but also with DAB chromogen.

30 mL	BMA-30
100 mL	BMA-100
250 mL	BMA-250
500 mL	BMA-500



# Immersion oils

## Seven different types of immersion oils for microscopical analysis

Immersion oils are essential for routine laboratory work, especially in hematology, cytology and microbiology. They are commonly used for high magnifications in order to secure high resolution and a clear image. There are several types of immersion oils that differ according to viscosity and certain properties required by different microscopy techniques. They all have a common refractive index of 1.5150, equal to the refractive index of glass.

### BioGnost's Immersion oils properties

PRODUCT NAME	VISCOSITY @ 23°C (cSt, mPa)	COMBINING WITH OTHER TYPES OF OIL	TYPE OF MICROSCOPY
IMMERSION OIL	800-1300	Immersion oil type A Immersion oil type C	light
IMMERSION OIL TYPE A	100-300	Immersion oil Immersion oil type C	light
IMMERSION OIL TYPE C	1500-2200	Immersion oil Immersion oil type A	light
IMMERSION OIL TYPE FF	170	-	fluorescent
IMMERSION OIL TYPE 37*	1250**	-	light, for use at 37°C
IMMERSION OIL, TROPICAL GRADE***	1000-1500****	-	light, for use at 27-29°C

\* refractive index  $n_D$  at 37°C = 1.5150    \*\* viscosity at 37°C    \*\*\* refractive index  $n_D$  at tropical temperatures = 1.515    \*\*\*\* viscosity at 28°C

#### Immersion oil

Immersion oil for microscopy analysis with optimal viscosity of 800-1300 cSt.

- 10x10 mL      IU-1010
- 30 mL        IU-30
- 100 mL       IU-100
- 250 mL       IU-250
- 500 mL       IU-500

#### Immersion oil type A

Immersion oil for microscopy analysis with low viscosity of 100-300 cSt.

- 10x10 mL      IUA-1010
- 30 mL        IUA-30
- 100 mL       IUA-100
- 250 mL       IUA-250
- 500 mL       IUA-500





### Immersion oil type C

Immersion oil for microscopy analysis with high viscosity of 1500-2200 cSt.

100 mL IUC-100  
250 mL IUC-250  
500 mL IUC-500

\* excellent synthetic substitute for natural immersion oils, such as Cedarwood oil

### Immersion oil type FF

Immersion oil for sample analysis in fluorescent microscopy.

100 mL IUF-100  
250 mL IUF-250  
500 mL IUF-500

### Immersion oil type 37

Immersion oil for microscopy analysis with optimal refractive index and viscosity of 1250 cSt at 37°C.

100 mL IU37-100  
250 mL IU37-250  
500 mL IU37-500

### Immersion oil, tropical grade

Immersion oil for microscopy analysis in tropical climates with optimal refractive index at 27-29°C.

10x10 mL IUT-1010  
30 mL IUT-30  
100 mL IUT-100  
250 mL IUT-250  
500 mL IUT-500



## Cleaning solutions for microscope lens and slides

### Clean Lens, solution 1

Solution according to Carl Zeiss formulation for cleaning microscope lens. Based on n-hexane and 2-propanol.

100 mL CL1-OT-100

### Clean Lens, solution 3

Solution for cleaning microscope lens and removing immersion oil from stained slide after using microscope. Based on petroleum ether and 2-propanol.

100 mL CL3-OT-100

### Clean Lens, solution 2

Solution for cleaning microscope lens and removing immersion oil from stained slide after using microscope. Based on diethyl ether and 2-propanol.

100 mL CL2-OT-100



# Standard histology staining reagents

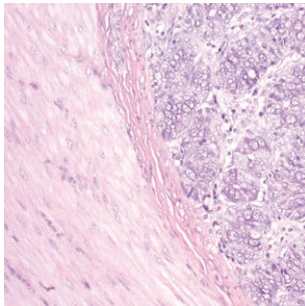
Reagents for hematoxylin and eosin (HE) staining, the gold standard for demonstrating cellular and tissue structures, providing detailed anatomy and morphology of frozen and paraffin tissue sections, enabling clear visualization of nuclear, cytoplasmic and other cell structures.

## Hematoxylin reagents

Nuclear stains for standard HE staining

### Properties of BioGnost's Hematoxylin reagents

PRODUCT NAME	CYTOLOGY	HISTOLOGY	IHC	PROGRESSIVE METHOD	REGRESSIVE METHOD
HEMATOXYLIN H	-	✓	-	✓	✓
HEMATOXYLIN M	-	✓	✓	✓	-
HEMATOXYLIN ML	-	✓	✓	✓	✓
HEMATOXYLIN G1	✓	✓	✓	✓	-
HEMATOXYLIN G2	✓	✓	✓	✓	✓
HEMATOXYLIN G3	✓	✓	-	✓	✓
HEMATOXYLIN CAR	-	✓	✓	✓	-
HEMATOXYLIN COL	-	✓	✓	✓	✓
HEMATOXYLIN HP, PAP 1A	✓	-	-	✓	✓
HEMATOXYLIN HP, PAP 1B	✓	-	-	✓	✓
HEMATOXYLIN W KIT	-	✓	✓	✓	acid resistant
HEMATOXYLIN P.T.A.	-	✓	-	✓	-



Each of BioGnost's Hematoxylin 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 reagent. Every staining provides a crystal clear and highly detailed image of the cell's nucleus, which in turn makes abnormal or pathological changes easier to detect.

### Hematoxylin H

Modified hematoxylin according to Harris, most commonly used formulation in HE staining. Strong intensity reagent for progressive and regressive staining in histopathology.

100 mL	HEMH-OT-100
500 mL	HEMH-OT-500
1000 mL	HEMH-OT-1L
2500 mL	HEMH-OT-2.5L

### Hematoxylin M

Modified hematoxylin according to Mayer. Weaker intensity reagent for progressive staining in histopathology and counterstaining in immunohistochemistry.

100 mL	HEMM-OT-100
500 mL	HEMM-OT-500
1000 mL	HEMM-OT-1L
2500 mL	HEMM-OT-2.5L

### Hematoxylin ML

Modified hematoxylin according to Mayer-Lillie. Strong intensity new generation reagent for progressive and regressive staining in histopathology.

100 mL	HEMML-OT-100
500 mL	HEMML-OT-500
1000 mL	HEMML-OT-1L
2500 mL	HEMML-OT-2.5L

### Hematoxylin G1

Hematoxylin according to Gill, ideal for staining goblet cells. New generation reagent for delicate progressive staining in histopathology, cytology and for counterstaining in immunohistochemistry.

100 mL	HEMG1-OT-100
500 mL	HEMG1-OT-500
1000 mL	HEMG1-OT-1L
2500 mL	HEMG1-OT-2.5L

### Hematoxylin G2

Hematoxylin according to Gill, contains double concentration of hematoxylin compared to Hematoxylin G1. Moderate intensity new generation reagent for progressive and regressive staining in histopathology, cytology and for counterstaining in immunohistochemistry.

100 mL	HEMG2-OT-100
500 mL	HEMG2-OT-500
1000 mL	HEMG2-OT-1L
2500 mL	HEMG2-OT-2.5L

### Hematoxylin G3

Modified hematoxylin contains triple concentration of hematoxylin compared to Hematoxylin G1. Strong intensity new generation reagent for progressive and regressive staining in histopathology and cytology.

100 mL	HEMG3-OT-100
500 mL	HEMG3-OT-500
1000 mL	HEMG3-OT-1L
2500 mL	HEMG3-OT-2.5L





## Hematoxylin reagents

### Nuclear stains for standard HE staining

#### Hematoxylin W kit

Acid-resistant hematoxylin according to Weigert. Two-reagent kit that stains the nuclei blue-black, often a component of special staining kits for connective tissues.

2x100 mL	HEMW-K-100
2x500 mL	HEMW-K-500
2x1000 mL	HEMW-K-1L

#### Hematoxylin P.T.A.

Synonyms: Hematoxylin Phosphotungstic Acid, Mallory P.T.A.H. reagent. Simultaneously stains different types of tissue reddish-brown and blue. For differentiation between fibrin, smooth and cross-striated muscle fibers.

500 mL	HPTA-OT-500
1000 mL	HPTA-OT-1L

#### Hematoxylin CAR

Modified hematoxylin according to Carazzi for delicate nuclear staining without staining cytoplasmic components. Reagent for progressive staining of frozen sections in histopathology.

100 mL	HEMCA-OT-100
500 mL	HEMCA-OT-500
1000 mL	HEMCA-OT-1L

#### Hematoxylin COL

Modified hematoxylin according to Cole, contains iodine. Weaker intensity reagent for progressive and regressive staining in histopathology.

100 mL	HEMCO-OT-100
500 mL	HEMCO-OT-500
1000 mL	HEMCO-OT-1L

#### Hematoxylin Instant kit

Two-component kit that contains ready-to-use powders for preparation of hematoxylin reagent for progressive and regressive nuclear staining in histopathology and cytology.

for 1000 mL	HEMI-K-1L
for 6000 mL	HEMI-K-6L

#### Kit for rapid HE staining of frozen and paraffin-embedded sections

Ready-to-use eight-reagent kit (in 20 containers that can be used as staining jars) for rapid HE staining of frozen and paraffin tissue sections in histopathology. Contains xylene substitute as clearing agent and xylene substitute-based medium for permanent coverslipping.

for 100 tests	HE-RTU-100T
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#### ErioGnost reagent

Acid fast reagent for nuclear staining, comparable to hematoxylin staining. Eco-friendly synthetic replacement for hematoxylin reagents.

100 mL	ERS-OT-100
500 mL	ERS-OT-500
1000 mL	ERS-OT-1L

## Differentiation and bluing reagents for histology and cytology

Differentiation of the nucleus enables clear visualization of nuclear structures in regressive procedure, while the bluing reagent turns the nucleus blue.

#### Acid alcohol

Reagent for enabling crisp visualization of nuclear chromatin detail and removing of excess background dye in histological samples after regressive staining with hematoxylin.

1000 mL	KA-OT-1L
2500 mL	KA-OT-2.5L

#### Scott's solution

Buffered reagent with potassium carbonate and magnesium sulphate for bluing of nuclear chromatin and nuclear membranes.

1000 mL	SC-OT-1L
2500 mL	SC-OT-2.5L

#### HCL Pap reagent

Aqueous reagent for enabling crisp visualization of nuclear chromatin detail and removing of excess background dye in cytological after regressive staining with hematoxylin.

1000 mL	HCLPAP-OT-1L
2500 mL	HCLPAP-OT-2.5L

#### Bluing reagent

Blue colored buffered reagent with lithium carbonate for bluing of nuclear chromatin and nuclear membranes.

1000 mL	BR-OT-1L
2500 mL	BR-OT-2.5L



# Eosin reagents

## Cytoplasmic stains for standard HE staining

Eosin Y (yellowish eosin) solutions are commonly used as a counterstain to hematoxylin in the standard HE staining method. Eosin Y is an anionic dye that stains basic cell components (such as cytoplasm, collagen, muscle fibers and erythrocytes) bright red.

### Eosin Y aqueous solutions

Eosin Y aqueous solutions for cytoplasmic counterstaining.

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

### Eosin Y alcoholic solutions

Eosin Y alcoholic solutions for cytoplasmic counterstaining.

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

### Eosin Contrast

Modified alcoholic solution for cytoplasmic counterstaining. The reagent contains Eosin Y and Phloxine B for enhanced counterstaining effect.

1000 mL 2500 mL	EOYK-OT-1L EOYK-OT-2.5L
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### Eosin Contrast PLUS

Modified alcoholic solution for intensive cytoplasmic counterstaining. Reagent contains Eosin Y, Phloxine B, and Biebrich Scarlet dyes for additional counterstaining effect.

1000 mL 2500 mL	EOYKP-OT-1L EOYKP-OT-2.5L
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### Eosin Y instant

Mixture of powders for preparation of eosin reagent in aqueous or alcoholic medium.

Eosin Y Instant, aqueous	for 1000 mL	EOYI-AQ-1L
Eosin Y Instant, alcoholic	for 1000 mL	EOYI-ALC-1L





# Cytology and hematology staining reagents

Cytology and hematology staining kits contain reagents for fixation, staining and buffering cytology and hematology samples, as well as cytology smears of hematopoietic organs, providing precise distinction between cellular structures. Cytochemical staining kits contain reagents for cytochemical diagnosis of leukemia using bone marrow or whole blood smears, and also for staining and determining specific cell components in blood samples.

## Papanicolaou (Pap) reagents

### Nuclear and cytoplasmic reagents for Pap staining

Due to their simplicity of use and exceptional precision in diagnostics, staining reagents according to Papanicolaou have substantially contributed to decreasing occurrence of cervical cancer. By using a simple staining protocol, BioGnost's Pap reagents enable excellent differentiation between cellular structures.



#### Hematoxylin HP, Pap 1A

Modified Harris hematoxylin solution for nuclear staining according to Papanicolaou. Strong intensity reagent for progressive and regressive staining in exfoliative cytology.

100 mL	HEMHP-OT-100
500 mL	HEMHP-OT-500
1000 mL	HEMHP-OT-1L
2500 mL	HEMHP-OT-2.5L

#### Hematoxylin HP, Pap 1B

Hematoxylin modified according to Harris for intensive nuclear staining according to Papanicolaou. Reagent for progressive and regressive staining in exfoliative cytology, with formulation stronger than Hematoxylin HP, Pap 1A.

100 mL	HEMHP1B-OT-100
500 mL	HEMHP1B-OT-500
1000 mL	HEMHP1B-OT-1L
2500 mL	HEMHP1B-OT-2.5L

#### OG-6 reagent, Pap 2A

Monochromatic reagent for counterstaining mature and keratinized squamous cell. Contains Orange G dye that stains the cytoplasm orange.

100 mL	OG6-OT-100
500 mL	OG6-OT-500
1000 mL	OG6-OT-1L
2500 mL	OG6-OT-2.5L

#### Orange II reagent, Pap 2B

Monochromatic reagent for counterstaining mature and keratinized squamous cells. Contains Orange II dye that stains the cytoplasm intense red.

100 mL	OR2-OT-100
500 mL	OR2-OT-500
1000 mL	OR2-OT-1L
2500 mL	OR2-OT-2.5L

**EA 31 reagent, Pap 3A**

Polychromatic reagent for staining and differentiation of squamous cells. Counterstain for **gynecology** samples in cytology, contains the largest amount of green dye compared to other EA reagents. Stains the cytoplasm blue-green and pink, with emphasis on green and pink.

100 mL	EA31-OT-100
500 mL	EA31-OT-500
1000 mL	EA31-OT-1L
2500 mL	EA31-OT-2.5L

**EA 50 reagent, Pap 3B**

Polychromatic reagent for staining and differentiation of squamous cells. Counterstain for **gynecology** samples in cytology, stains the cytoplasm blue-green and pink, with emphasis on blue and pink.

100 mL	EA50-OT-100
500 mL	EA50-OT-500
1000 mL	EA50-OT-1L
2500 mL	EA50-OT-2.5L

**EA 65 reagent, Pap 3C**

Polychromatic reagent for staining and differentiation of squamous cells. Counterstain for **non-gynecology** samples in cytology, stains the cytoplasm red.

100 mL	EA65C-OT-100
500 mL	EA65C-OT-500
1000 mL	EA65C-OT-1L
2500 mL	EA65C-OT-2.5L

**EA 65 reagent, Pap 3D**

Polychromatic reagent for staining and differentiation of squamous cells. Counterstain for **non-gynecology** samples in cytology, stains the cytoplasm light blue-green and pink.

100 mL	EA65D-OT-100
500 mL	EA65D-OT-500
1000 mL	EA65D-OT-1L
2500 mL	EA65D-OT-2.5L

**Rapid Pap staining kit**

Ready-to-use eight-reagent kit (in 20 containers that can be used as staining jars) for rapid progressive gynecology and non-gynecology cytological samples. Contains xylene substitute as clearing agent and xylene substitute-based medium for permanent covering of samples.

for 100 tests	PAP-100T
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**OG-EA31 Pap reagent**

One-step polychromatic reagent used as counterstain for gynecology samples in cytology. Enables rapid staining and differentiation between epithelial cells whose cytoplasm is stained green and pink. It is not necessary to use OG-6, Pap 2A reagent during staining because it stains cytoplasm of keratinized cell orange at the same time.

100 mL	OGEA31-OT-100
500 mL	OGEA31-OT-500
1000 mL	OGEA31-OT-1L
2500 mL	OGEA31-OT-2.5L

**OG-EA50 Pap reagent**

One-step polychromatic reagent used as counterstain for gynecology samples in cytology. Enables rapid staining and differentiation between epithelial cells whose cytoplasm is stained blue and pink. It is not necessary to use OG-6, Pap 2A reagent during staining because it stains cytoplasm of keratinized cell orange at the same time.

100 mL	OGEA50-OT-100
500 mL	OGEA50-OT-500
1000 mL	OGEA50-OT-1L
2500 mL	OGEA50-OT-2.5L

**Shorr's solution**

Enables clear differentiation of eosinophilic and cyanophilic cells of cervical epithelium. It is also used for a better visualization of sperm morphology.

100 mL	SH-OT-100
500 mL	SH-OT-500
1000 mL	SH-OT-1L
2500 mL	SH-OT-2.5L

**Hematoxylin G1**

Hematoxylin according to Gill, ideal for staining goblet cells. New generation reagent for delicate progressive staining in histopathology, cytology and for counterstaining in immunohistochemistry.

100 mL	HEMG1-OT-100
500 mL	HEMG1-OT-500
1000 mL	HEMG1-OT-1L
2500 mL	HEMG1-OT-2.5L

**Hematoxylin G2**

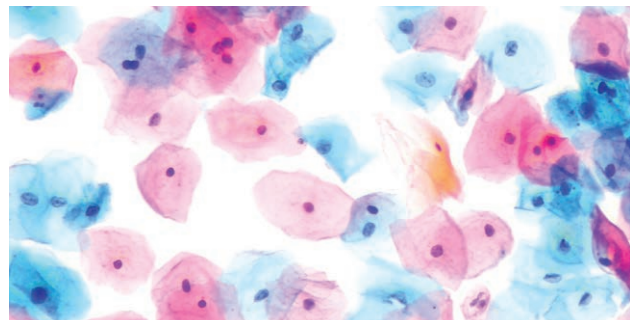
Hematoxylin according to Gill, contains double concentration of hematoxylin compared to Hematoxylin G1. Moderate intensity new generation reagent for progressive staining in histopathology, cytology and for counterstaining in immunohistochemistry.

100 mL	HEMG2-OT-100
500 mL	HEMG2-OT-500
1000 mL	HEMG2-OT-1L
2500 mL	HEMG2-OT-2.5L

**Hematoxylin G3**

Modified hematoxylin contains triple concentration of hematoxylin compared to Hematoxylin G1. Strong intensity new generation reagent for progressive staining in histopathology and cytology.

100 mL	HEMG3-OT-100
500 mL	HEMG3-OT-500
1000 mL	HEMG3-OT-1L
2500 mL	HEMG3-OT-2.5L





# Rapid and standard hematology reagents and kits

## Bio-Diff kits

### Rapid staining solutions for hematology, cytology and histology

Rapid diagnostic kits that provide precise staining results in a short period of time, such as results provided by May-Gruenwald Giemsa (MGG) staining method. Each component of Bio-Diff and Bio-Diff RTU kits is stabilized and prepared according to the highest standards.

#### Bio-Diff kit

Three-reagent kit that contains fixative agent, red and blue components for fast and effective staining. Each kit contains buffer tablets for consistent staining results.

3x100 mL	BD-K-100
3x500 mL	BD-K-500
3x1000 mL	BD-K-1L
3x2500 mL	BD-K-2.5L



#### Bio-Diff 1 reagent

Fixative agent, component of Bio-Diff kit.

100 mL	BD1-OT-100
500 mL	BD1-OT-500
1000 mL	BD1-OT-1L
2500 mL	BD1-OT-2.5L



#### Bio-Diff 2 reagent

Buffered red component of Bio-Diff kit.

100 mL	BD2-OT-100
500 mL	BD2-OT-500
1000 mL	BD2-OT-1L
2500 mL	BD2-OT-2.5L

#### Bio-Diff 3 reagent

Buffered blue component of Bio-Diff kit.

100 mL	BD3-OT-100
500 mL	BD3-OT-500
1000 mL	BD3-OT-1L
2500 mL	BD3-OT-2.5L

STAINING DONE IN  
14 SECONDS\*



\* Depending on the type of sample.

**Bio-Diff RTU kit**

Ready-to-Use three-reagent kit with reagents in containers that can be used as staining jars. Kit contains fixative agent, red and blue components for fast and effective staining and buffer tablet for consistent staining results.

3x100 mL                      BD-RTU-100



**Bio-Diff 1 RTU reagent**

Fixative component Bio-Diff RTU kit.

100 mL                              BD1-RTU



**Bio-Diff 2 RTU reagent**

Buffered red component of Bio-Diff RTU kit.

100 mL                              BD2-RTU

**Bio-Diff 3 RTU reagent**

Buffered blue component of Bio-Diff RTU kit.

100 mL                              BD3-RTU

STAINING DONE IN  
14 SECONDS\*



\* depending on the type of sample

**Buffer solution, pH 7.2**

Phosphate buffer solution, molarity 6 mM for use in hematology and histology.

1000 mL                      PUF72-OT-1L  
2500 mL                      PUF72-OT-2.5L  
5000 mL                      PUF72-OT-5L

**Buffer tablets pH 7.2**

Phosphate buffer tablets for preparing buffer solutions used in hematology and histology. One buffer tablet is sufficient for preparation of 1000 mL of phosphate buffer solution.

50 pcs                              PT-72-50  
100 pcs                             PT-72-100



Use buffer solution pH 6.8 for hematological and cytological diagnostics. Use buffer solution pH 7.2 for the detection of blood parasites.



# May-Gruenwald and Giemsa reagents

## Romanowsky staining solutions for hematology, cytology and histology

One of the most commonly used Pappenheim methods is May-Gruenwald Giemsa (MGG) for staining hematology and cytology materials, as well as cytology smears of hematopoietic organs. Giemsa solution is also used for staining histology sections.

### May-Gruenwald solution

Polychromatic fixative solution containing Eosin Y, Methylene Blue and azure dyes. For staining in hematology, cytology and staining sections of hematopoietic organs in histopathology.

100 mL	MG-OT-100
10x100 mL	MG-OT-110
500 mL	MG-OT-500
1000 mL	MG-OT-1L
2500 mL	MG-OT-2.5L



### Giemsa solution

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes. For use in hematology, cytology, histology and for staining section samples of hematopoietic organs.

100 mL	GM-OT-100
10x100 mL	GM-OT-110
500 mL	GM-OT-500
1000 mL	GM-OT-1L
2500 mL	GM-OT-2.5L



### Buffer solution, pH 6.4

Phosphate buffer solution, molarity 6 mM for use in hematology and histology.

1000 mL	PUF64-OT-1L
2500 mL	PUF64-OT-2.5L
5000 mL	PUF64-OT-5L

### Buffer solution, pH 6.8

Phosphate buffer solution, molarity 6 mM for use in hematology and histology.

1000 mL	PUF68-OT-1L
2500 mL	PUF68-OT-2.5L
5000 mL	PUF68-OT-5L

### Buffer tablets pH 6.8

Phosphate buffer tablets for preparing solutions used in hematology and histology. One buffer tablet is sufficient for preparation of 1000 mL of phosphate buffer solution.

50 pcs	PT-68-50
100 pcs	PT-68-100

Use buffer solution pH 6.8 for hematological and cytological diagnostics. Use buffer solution pH 7.2 for the detection of blood parasites.



## Additional staining solutions for hematology and cytology



### Wright's solution

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes. For staining in hematology, cytology and cytogenetics.

100 mL	WR-OT-100
500 mL	WR-OT-500
1000 mL	WR-OT-1L

### Field kit

Ready to use two-reagent kit for rapid and efficient staining and detection of parasites in hematology samples. Kit for 100 tests contains reagents in containers that can be used as staining jars.

for 100 tests	FD-100T
2x500 mL	FD-K-500

### Wright-Giemsa solution

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes. Modified Romanowsky stain for hematology staining.

100 mL	WRGM-OT-100
500 mL	WRGM-OT-500
1000 mL	WRGM-OT-1L
2500 mL	WRGM-OT-2.5L



### Hayem's solution

Solution for manual counting of erythrocytes.

100 mL	HY-OT-100
500 mL	HY-OT-500
1000 mL	HY-OT-1L

### Tuerk's solution

Solution for manual counting of leukocytes.

100 mL	TU-OT-100
500 mL	TU-OT-500
1000 mL	TU-OT-1L

### Brilliant Cresyl Blue, solution

Solution for staining reticulocytes in hematology.

100 mL	BCB-OT-100
500 mL	BCB-OT-500
1000 mL	BCB-OT-1L

### Leishman's solution

Polychromatic solution of Eosin Y, Methylene Blue and azure dyes. For staining in hematology and clinical cytology.

100 mL	LE-OT-100
500 mL	LE-OT-500
1000 mL	LE-OT-1L

### CytoGnost kit

Three-reagent kit for manual counting of human blood components.

3 x 100 mL	HCG-K-100
3 x 500 mL	HCG-K-500
3 x 1000 mL	HCG-K-1L

### ThromboGnost solution

Solution for manual counting of thrombocytes.

100 mL	THR-OT-100
500 mL	THR-OT-500
1000 mL	THR-OT-1L



# LEUKOGNOST

## Cytochemical staining kits and ancillary reagents

### Cytochemical staining kits

Enzymocytochemical blood smear and bone marrow staining of sections used to determine location and activity of cellular structures and enzyme systems in leukemia cell cytoplasm. Known as a routine method for diagnosis of hematological diseases and leukemia classification.

#### LeukoGnost SPE

Kit for detection of specific esterase activity (Leder stain, chloroacetate esterase) in leukocytes. Can be applied on formalin-fixed, paraffin-embedded tissue.

for at least 100 tests LKG-SPE



#### LeukoGnost ALP

Kit for detection of alkaline phosphatase activity in leukocytes.

for at least 100 tests LKG-ALP



#### LeukoGnost MPO

Kit for detection of myeloperoxidase activity in leukocytes.

for at least 100 tests LKG-MPO



#### LeukoGnost PAS

Kit for detection of the periodic acid-Schiff reaction in leukocytes.

for at least 100 tests LKG-PAS



#### LeukoGnost NSE

Kit for detection of non-specific esterase activity in leukocytes.

for at least 100 tests LKG-NSE



#### LeukoGnost SPENSE

Kit for simultaneous detection of specific and non-specific esterase activity in leukocytes.

for at least 50 tests LKG-SPENSE



#### LeukoGnost ACP

Kit for detection of alkaline phosphatase activity in leukocytes.

for at least 50 tests LKG-ACP



#### LeukoGnost PERLS

LeukoGnost PERLS (Prussian blue) kit for detection of free ferric (Fe<sup>3+</sup>) ions in blood and bone marrow. For application on tissue cells use HemoGnost PERLS kit.

for 100 tests LKG-PERLS

#### Sudan Black B kit

Four-reagent kit for staining neutrophil granules in hematological smears.

for 350-400 tests SBBH-K-100



#### Sudan Black B ECO

Phenol-free three-reagent kit for staining neutrophil granules in hematological smears.

for 100 tests SBBE-100T





## LEUKOGNOST

### Cytochemical staining kits and ancillary reagents

#### Ancillary reagents

Ancillary reagents greatly complement LeukoGnost kits - can be purchased separately or as a kit (LeukoGnost PLUS) containing a fixative, hematoxylin stain and a water-based mounting medium.

#### LeukoGnost PLUS

Additional set of reagents for use with LeukoGnost kits. Contains fixative, hematoxylin reagent and water-based mounting medium.

for at least 100 tests      LKG-PLUS

#### LeukoGnost Fixative

Fixative for use in cytochemical diagnostics of leukemia

500 mL      LKF-500

#### LeukoGnost Fixative ECO

Formalin-free fixative for use in cytochemical diagnostics of leukemia.

500 mL      LFEC-500

#### LeukoGnost Fixative GL

Fixative for use in cytochemical diagnostics of leukemia, based on A formalin substitute.

500 mL      LFGL-500

#### LeukoGnost HEM

Hematoxylin reagent for use with LeukoGnost kits.

100 mL	LKH-OT-100
250 mL	LKH-OT-250
500 mL	LKH-OT-500

#### BioMount Aqua

Aqueous covering medium for microscope sections and mounting medium for cover glasses.

30 mL	BMA-30
100 mL	BMA-100
250 mL	BMA-250
500 mL	BMA-500





# Bacteriology and mycology staining reagents

Reagents for rapid and easy staining in microbiology allowing optimal differential analysis of bacteria. Phenol-free staining kits offer environment-friendly alternative without compromising quality of staining. Reagents for fungal analysis enable visualization of fungal structures (otherwise difficult to observe) and samples preservation.

## BioGram kits and reagents

### Kits for identification of bacteria according to Gram

Differential staining of bacteria according to Gram is widely known and used method in microbiology. BioGram 4 kit uses standard method to provide optimal staining and identification of Gram-positive and Gram-negative bacteria. BioGram ECO kit is a phenol-free, eco-friendly alternative to BioGram 4 kit with equal staining results.

#### BioGram 4 kit

Four-reagent kit for identification of bacteria according to Gram. Kit contains Gram Crystal Violet 1% solution, stabilized Gram Lugol solution, double amount of Gram Decolorizer solution 2 and Gram Safranin solution as counterstain.

for 100 tests	BGR4-100T
5x100 mL	BGR4-K-100
5x250 mL	BGR4-K-250
5x500 mL	BGR4-K-500

#### Gram Crystal Violet 1% solution

Primary stain reagent for Gram-positive bacteria. Crystal Violet is also known as Gentian Violet and Methyl Violet 10B.

100 mL	GC1-OT-100
250 mL	GC1-OT-250
500 mL	GC1-OT-500
1000 mL	GC1-OT-1L
2500 mL	GC1-OT-2.5L

#### Gram Lugol solution, stabilized

Solution contains polyvinylpyrrolidone iodine (PVP-I).

100 mL	GLS-OT-100
250 mL	GLS-OT-250
500 mL	GLS-OT-500
1000 mL	GLS-OT-1L
2500 mL	GLS-OT-2.5L

#### Gram Decolorizer solution 2

Medium speed decolorizer used after stabilized iodine solution.

100 mL	GD2-OT-100
250 mL	GD2-OT-250
500 mL	GD2-OT-500
1000 mL	GD2-OT-1L
2500 mL	GD2-OT-2.5L

#### Gram Safranin solution

Counterstain for Gram-negative bacteria, contains Safranin O dye.

100 mL	GSF-OT-100
250 mL	GSF-OT-250
500 mL	GSF-OT-500
1000 mL	GSF-OT-1L
2500 mL	GSF-OT-2.5L

**BioGram ECO kit** PHENOL-FREE

Four-reagent phenol-free kit for identification of bacteria according to Gram. Kit contains Gram Crystal violet, phenol-free reagent, Gram Sodium hydrogencarbonate, solution, stabilized Gram Lugol solution, double amount of Gram Decolorizer solution 2 and Gram Safranin solution as counterstain.

2x50 mL+4x100 mL	BGRE-K-100
2x250 mL+4x500 mL	BGRE-K-500

**Gram Crystal Violet, phenol-free reagent**

Primary stain reagent for Gram-positive bacteria, doesn't contain phenol. Crystal Violet is also known as Gentian Violet and Methyl Violet 10B.

100 mL	GCF-OT-100
250 mL	GCF-OT-250
500 mL	GCF-OT-500
1000 mL	GCF-OT-1L
2500 mL	GCF-OT-2.5L

**Gram Sodium hydrogencarbonate, solution**

Solution of sodium hydrogencarbonate for use with BioGram ECO kit.

100 mL	GNHK-OT-100
250 mL	GNHK-OT-250
500 mL	GNHK-OT-500
1000 mL	GNHK-OT-1L
2500 mL	GNHK-OT-2.5L

Additional bacteriology staining solutions according to Gram

**Gram Lugol solution**

Non-stabilized Lugol solution.

100 mL	GL-OT-100
250 mL	GL-OT-250
500 mL	GL-OT-500
1000 mL	GL-OT-1L

**Gram Decolorizer solution 1**

Slow acting decolorizer solution used after non-stabilized iodine solution.

100 mL	GD1-OT-100
250 mL	GD1-OT-250
500 mL	GD1-OT-500
1000 mL	GD1-OT-1L

**Gram Decolorizer solution 3**

Fast acting solution used with automated stainers.

100 mL	GD3-OT-100
250 mL	GD3-OT-250
500 mL	GD3-OT-500
1000 mL	GD3-OT-1L

**Gram Safranin 5x concentrated**

Concentrated counterstain solution of Safranin O dye.

For preparation of 500 mL of Safranin O counterstain solution	100 mL	SO05X-OT-100
For preparation of 2500 mL of Safranin O counterstain solution	500 mL	SO05X-OT-500
For preparation of 5000 mL of Safranin O counterstain solution	1000 mL	SO05X-OT-1L

**Carbol Fuchsin Gram 10x concentrated**

Concentrated Carbol Fuchsin solution for preparation of counterstain solution for modified staining. Also known as concentrated Gram Fuchsin solution.

For preparation of 1000 mL of Carbol Fuchsin Gram counterstain solution	100 mL	CFGR10-OT-100
For preparation of 5000 mL of Carbol Fuchsin Gram counterstain solution	500 mL	CFGR10-OT-500
For preparation of 10000 mL of Carbol Fuchsin Gram counterstain solution	1000 mL	CFGR10-OT-1L

Additional iodine solutions

**Lugol's solution**

Classic formulation of aqueous solution of iodine and potassium iodide.

100 mL	LUG-OT-100
250 mL	LUG-OT-250
500 mL	LUG-OT-500

**Lugol's C solution**

Aqueous solution of iodine and potassium iodide, enhanced formulation with stronger staining (compared to classic Lugol solution).

100 mL	LUGC-OT-100
250 mL	LUGC-OT-250
500 mL	LUGC-OT-500

**Lugol's solution, acid**

Aqueous iodine and potassium iodide solution with added acid.

100 mL	LUGK-OT-100
250 mL	LUGK-OT-250
500 mL	LUGK-OT-500



## TB-Stain kits and reagents

### Kits for staining acid-fast bacteria according to Ziehl-Neelsen

Most commonly known method for detecting TB bacteria according to Ziehl-Neelsen. This method enables rapid and easy staining of acid-fast bacterial strains, such as *Mycobacteria*, *Nocardia*, *Rhodococcus*, *Dietzia* and *Gordonia*. TB-Stain ECO kit is a phenol-free, environment-friendly alternative to TB-Stain Hot kit.

#### TB-Stain Hot kit

Three-reagent kit for staining acid-fast bacteria. Contains TB Carbol Fuchsin reagent, double amount of TB Decolorizer and Methylene Blue Loeffler's reagent as counterstain.

for 100 tests	TBH-100T
4x100 mL	TBH-K-100
4x250 mL	TBH-K-250
4x500 mL	TBH-K-500



#### TB Carbol Fuchsin reagent

Synonym: Ziehl-Neelsen reagent. Primary stain reagent for acid-fast bacteria used in TB-Stain Hot, TB-Stain Cold and TB-Stain Quick kits.

100 mL	TBC-OT-100
250 mL	TBC-OT-250
500 mL	TBC-OT-500
1000 mL	TBC-OT-1L
2500 mL	TBC-OT-2.5L



#### TB-Stain ECO kit PHENOL-FREE

Three-reagent phenol-free kit for staining acid-fast bacteria. Contains TB-Fuchsin reagent, double amount of TB Decolorizer and Methylene Blue Loeffler's reagent as counterstain.

4x100 mL	TBE-K-100
4x250 mL	TBE-K-250
4x500 mL	TBE-K-500



#### TB Decolorizer

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

100 mL	TBD-OT-100
250 mL	TBD-OT-250
500 mL	TBD-OT-500
1000 mL	TBD-OT-1L
2500 mL	TBD-OT-2.5L



#### Methylene Blue Loeffler's reagent

Blue counterstain for TB-Stain Hot kit.

100 mL	MBL-OT-100
250 mL	MBL-OT-250
500 mL	MBL-OT-500
1000 mL	MBL-OT-1L
2500 mL	MBL-OT-2.5L

#### TB Fuchsin reagent

Primary stain **phenol-free** reagent for acid-fast bacteria used in TB-Stain ECO kit.

100 mL	TBFR-OT-100
250 mL	TBFR-OT-250
500 mL	TBFR-OT-500
1000 mL	TBFR-OT-1L
2500 mL	TBFR-OT-2.5L

### Additional TB-Stain Hot kit staining solution

#### Methylene Blue 10x concentrated

Concentrated counterstain solution of Methylene Blue dye for use in microbiology.

For preparation of 1000 mL of Methylene Blue counterstain solution	100 mL	MB10X-OT-100
--------------------------------------------------------------------	--------	--------------

For preparation of 5000 mL of Methylene Blue counterstain solution	500 mL	MB10X-OT-500
--------------------------------------------------------------------	--------	--------------

For preparation of 10000 mL of Methylene Blue counterstain solution	1000 mL	MB10X-OT-1L
---------------------------------------------------------------------	---------	-------------



## Kits for staining acid-fast bacteria according to Kinyoun and Kinyoun-Gabbett

### TB-Stain Cold kit

Three-reagent kit for staining acid-fast bacteria according to Kinyoun. Contains TB Carbol Fuchsin reagent, double amount of TB Decolorizer and TB Malachite Green reagent as counterstain.

for 100 tests	TBC-100T
4x100 mL	TBC-K-100
4x250 mL	TBC-K-250
4x500 mL	TBC-K-500

### TB Carbol Fuchsin reagent

Synonym: Ziehl-Neelsen reagent. Primary stain reagent for acid-fast bacteria used in TB-Stain Hot, TB-Stain Cold and TB-Stain Quick kits.

100 mL	TBC-OT-100
250 mL	TBC-OT-250
500 mL	TBC-OT-500
1000 mL	TBC-OT-1L
2500 mL	TBC-OT-2.5L

### TB Decolorizer

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

100 mL	TBD-OT-100
250 mL	TBD-OT-250
500 mL	TBD-OT-500
1000 mL	TBD-OT-1L
2500 mL	TBD-OT-2.5L

### TB Malachite Green reagent

Green counterstain for TB-Stain Cold kit.

100 mL	TBM-OT-100
250 mL	TBM-OT-250
500 mL	TBM-OT-500
1000 mL	TBM-OT-1L
2500 mL	TBM-OT-2.5L

### TB-Stain Quick kit

Three-reagent kit for rapid staining of acid-fast bacteria using Kinyoun-Gabbett method. Contains TB Carbol Fuchsin reagent and TB Armand reagent as counterstain.

3x100 mL	TBQ-K-100
3x250 mL	TBQ-K-250
3x500 mL	TBQ-K-500

### TB Armand reagent

Blue counterstain for use in TB-Stain Quick kit.

100 mL	TBAR-OT-100
250 mL	TBAR-OT-250
500 mL	TBAR-OT-500
1000 mL	TBAR-OT-1L
2500 mL	TBAR-OT-2.5L

## Additional TB-Stain Cold kit staining solution

### Gabbett reagent

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

100 mL	GAB-OT-100
250 mL	GAB-OT-250
500 mL	GAB-OT-500
1000 mL	GAB-OT-1L





## Kits for detection of acid-fast bacteria using fluorescence microscopy according to modified Truant method

### TB-Stain Fluorescent kit

Three-reagent kit for detection of acid-fast bacteria using fluorescence microscopy. Contains TB Auramine-Rhodamine reagent, double amount of TB Decolorizer Fluorescent and TB Permanganate reagent as counterstain.

for 100 tests	TBF-100T
4x100 mL	TBF-K-100
4x250 mL	TBF-K-250
4x500 mL	TBF-K-500



### TB-Stain Auramine O kit

Three-reagent kit for staining acid-fast bacteria using fluorescence method. Contains TB Auramine O reagent, double amount of TB Decolorizer Fluorescent and counterstain of TB Permanganate reagent.

4x100 mL	TBAO-K-100
4x250 mL	TBAO-K-250
4x500 mL	TBAO-K-500



### TB Auramine O reagent

Primary stain for use in TB Stain Auramine O kit.

100 mL	TBAO-OT-100
250 mL	TBAO-OT-250
500 mL	TBAO-OT-500
1000 mL	TBAO-OT-1L
2500 mL	TBAO-OT-2.5L

### TB Auramine-Rhodamine reagent

Primary stain reagent for use in TB-Stain Fluorescent kit.

100 mL	TBA-OT-100
250 mL	TBA-OT-250
500 mL	TBA-OT-500
1000 mL	TBA-OT-1L
2500 mL	TBA-OT-2.5L



### TB Decolorizer Fluorescent

For use in TB-Stain Fluorescent and TB-Stain Auramine O kits.

100 mL	TBF-OT-100
250 mL	TBF-OT-250
500 mL	TBF-OT-500
1000 mL	TBF-OT-1L
2500 mL	TBF-OT-2.5L



### TB Permanganate reagent

Counterstain for use in TB-Stain Fluorescent kit and TB-Stain Auramine O kits.

100 mL	TBP-OT-100
250 mL	TBP-OT-250
500 mL	TBP-OT-500
1000 mL	TBP-OT-1L
2500 mL	TBP-OT-2.5L



## Solutions for staining and analysis of fungi

In order to detect and achieve better visualization of fungi and fungal structures that are otherwise difficult to observe, fungi can be stained using Lactophenol solutions. Using Myco-Mount medium they can also be stained and preserved as a permanent preparation.

### Lactophenol Blue solution

For use in mycology for staining and analysis of fungi.

100 mL	LPB-OT-100
250 mL	LPB-OT-250



### Lactophenol solution

Colorless solution for use in mycology and analysis of fungi.

100 mL	LP-OT-100
250 mL	LP-OT-250



For detection and fungal staining of histology sections, please see page 44 for more details on Grocott kit.

### Myco-Mount Blue

Medium for simultaneous staining of fungi blue and preparation of permanent slides.

30 mL	MYMB-30
100 mL	MYMB-100



### Myco-Mount Red

Medium for simultaneous staining of fungi red and preparation of permanent slides.

30 mL	MYMR-30
100 mL	MYMR-100



### Potassium hydroxide, solution for fungi

Solution for use in mycology for analysis and visualization of fungi.

30 mL	KHOG-OT-30
100 mL	KHOG-OT-100





# Special staining kits for histology and cytology

Special kits for histology and cytology enable clear visualization of specific structures and cellular components. All of the reagents are easy to use and precisely formulated to maximize usability and to provide optimal results for the user.

Classification of special staining kits according to use:

## MUSCLE AND/OR CONNECTIVE TISSUE

- A.F.O.G kit
- Azan Trichrome kit
- Elastica-Van Gieson kit
- Gomori Trichrome kit
- H.B.F.P. kit
- Hematoxylin P.T.A. kit
- Hematoxylin W kit
- Ladewig's Trichrome kit
- Mallory Trichrome kit
- Martius Scarlet Blue (MSB) kit
- Masson Trichrome kit
- Masson-Goldner Trichrome kit
- Movat kit
- Orcein kit
- Paraldehyde Fuchsin kit
- P.A.S.M. / Jones kit
- Picro-Sirius Red kit
- Safranin O kit
- Reticulin kit
- Reticulin Contrast kit
- Van Gieson Trichrome kit
- Verhoeff kit
- Weigert-Van Gieson kit

## ENZYME ACTIVITY

- LeukoGnost SPE

## FUNGI, BACTERIA AND PARASITES

- Alcian Yellow Toluidine Blue kit
- BioGram Histo kit
- Field kit
- Giemsa HP kit
- Grocott kit
- M.I.F. kit
- TB-Stain Histo kit
- Warthin Starry kit

## LIPIDS

- Oil Red O kit
- Sudan Black B Lipid kit

## NUCLEI AND NUCLEIC ACIDS

- Feulgen kit

## PIGMENTS AND MINERAL DEPOSITS

- Fouchet-Van Gieson kit
- Grimelius kit
- HemoGnost Perls kit
- Masson Fontana kit
- Orcein kit
- Perls-Van Gieson kit
- Rhodanine kit
- Von Kossa kit

## CYTOLOGY

- Bio-Diff RTU kit
- Eosin and nigrosin vital kit
- Sperm-Diff RTU kit
- UriGnost S kit
- UriGnost SM kit

## CARBOHYDRATES

- Alcian Blue - P.A.S. kit
- Alcian Blue pH 1.0 kit
- Alcian Blue pH 2.5 kit
- Colloidal Iron kit
- Congo Red Highman kit
- Congo Red Puchtler kit
- Mucicarmine kit
- P.A.S. kit
- P.A.S. Diastase kit

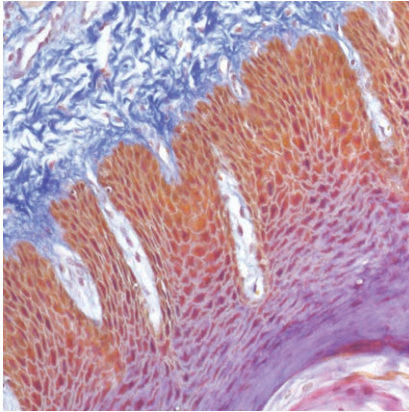
## CRYOSTAT

- Gomori Trichrome kit
- Oil Red O kit
- Orcein kit
- Sudan Black B Lipid kit

## CENTRAL NERVOUS SYSTEM

- Bielschowsky kit
- Luxol Fast Blue kit

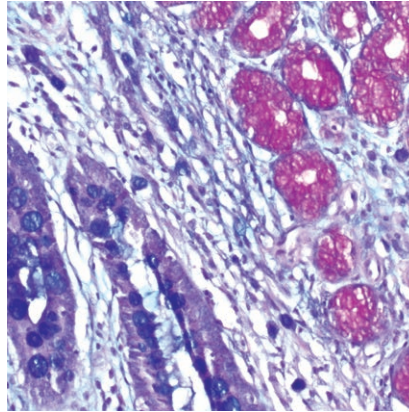




### A.F.O.G. kit

Six-reagent Acid Euchsin Orange G kit for selective staining of glomerular protein deposits and collagen in kidney biopsies. Nuclear stain is obtained with Weigert ferric hematoxylin, cytoplasm with Orange G and highly selective collagen stain with Aniline blue.

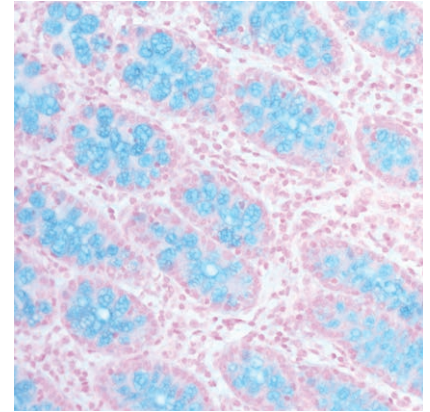
for 100 tests      AFOG-100T  
6x100 mL        AFOG-K-100



### Alcian Blue - P.A.S. kit

Seven-reagent Alcian Blue - Periodic Acid-Schiff kit for staining acid mucopolysaccharides according to Mowry. Enables differentiation between acid mucins (stained light blue) and neutral mucins, glycogens and glycoproteins (stained magenta).

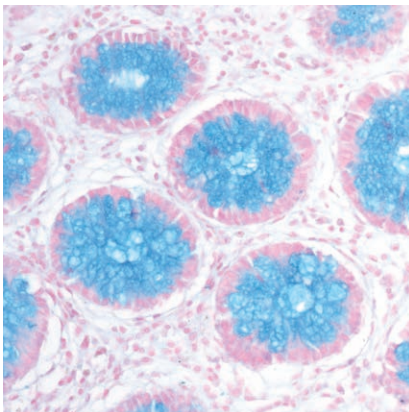
for 100 tests      AB-100T  
7x100 mL        AB-K-100  
7x500 mL        AB-K-500



### Alcian Blue pH 1.0 kit

Three-reagent kit for specific staining of heavily sulfated mucopolysaccharides blue. Slides are counterstained with Nuclear Fast Red (Kernechtrot) reagent to fully detect the presence of Alcian Blue positive staining.

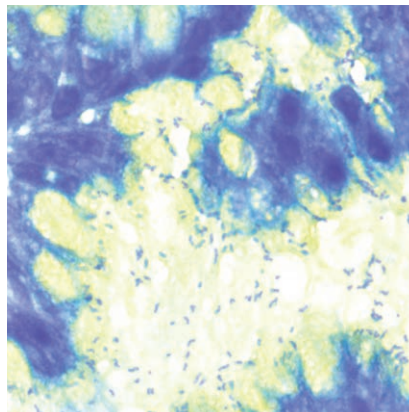
for 100 tests      AB10-100T  
3x100 mL        AB10-K-100



### Alcian Blue pH 2.5 kit

Three-reagent kit for staining sulfated and carboxylated acid mucopolysaccharides and sulfated and carboxylated sialomucins blue. Slides are counterstained with Nuclear Fast Red (Kernechtrot) reagent to fully detect the presence of Alcian Blue positive staining.

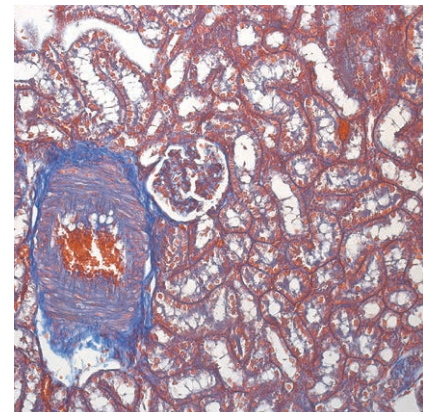
for 100 tests      AB25-100T  
3x100 mL        AB25-K-100



### Alcian Yellow Toluidine Blue kit

Six-reagent kit for staining *Helicobacter pylori* in gastric tissue sections. This method is one of the most popular non-silver method for staining of *H. pylori*, where bacteria are stained blue in contrast to yellow mucins.

for 100 tests      AYTB-100T



### Azan Trichrome kit

Five-reagent kit for connective tissue staining according to Mallory. Used for visualization of muscle fibers, collagen, glial cells, kidney glomerular stroma, erythrocytes, reticulum and nuclear chromatin in histologic sections.

for 100 tests      AZT-100T  
5x250 mL        AZT-K-250

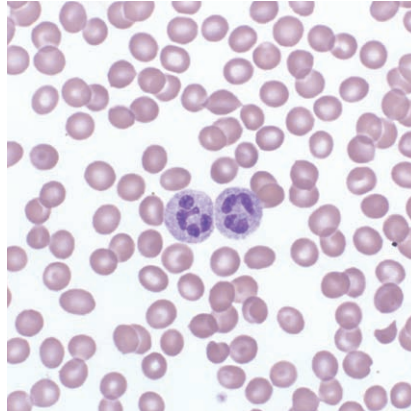




**Bielschowsky kit**

Five-reagent kit for staining nerve fibers, axons, neurofibrils and senile plaques in the central nervous system. Bielschowsky silver stain kit can be used in detecting Alzheimer's disease and other neurological disorders.

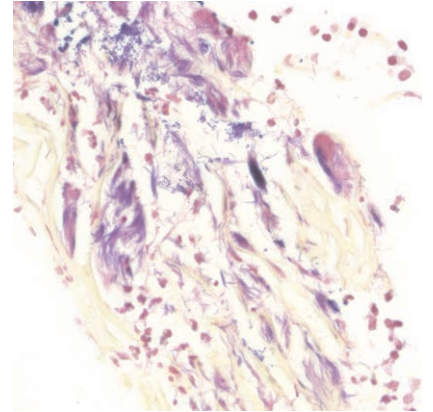
for 100 tests      BLS-100T



**Bio-Diff RTU kit**

Ready-to-Use three-reagent kit with reagents stored in containers that can be used as staining jars. Kit contains fixative reagent, red and blue components for fast and effective staining and buffer tablet for consistent staining results.

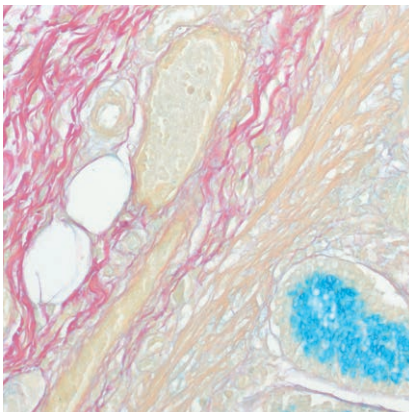
3x100 mL      BD-RTU-100



**BioGram Histo kit**

Five-reagent kit for identification of bacteria according to Gram. For differentiation between Gram-positive and Gram-negative bacteria in histology sections.

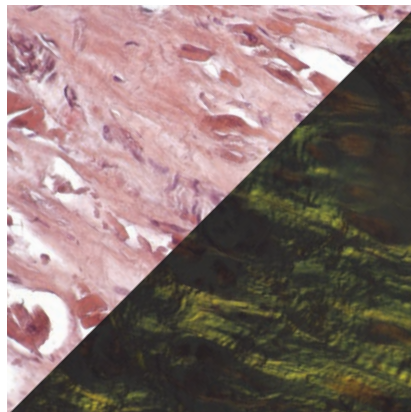
for 100 tests      BGRH-100T



**Colloidal Iron kit**

Six-reagent kit used for visualization of carboxylated and sulphated groups of acid mucopolysaccharides and proteoglycans. This method can be combined with the P.A.S. method; that way glycogen and neutral mucopolysaccharides would get differentially stained characteristically magenta.

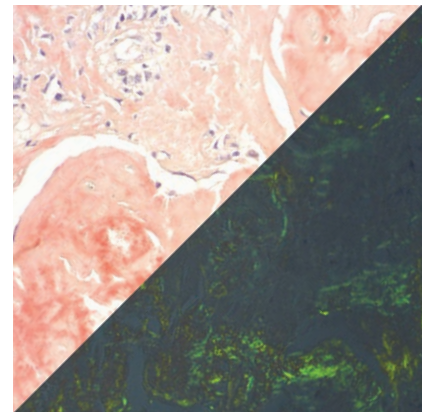
for 100 tests      KOL-100T



**Congo Red Highman kit**

Three-reagent kit for staining amyloids, characteristic for use of alkaline solution as differentiation medium in order to avoid undesirable non-specific coloration of cellular substances. Amyloid deposits display apple green birefringence with polarized light.

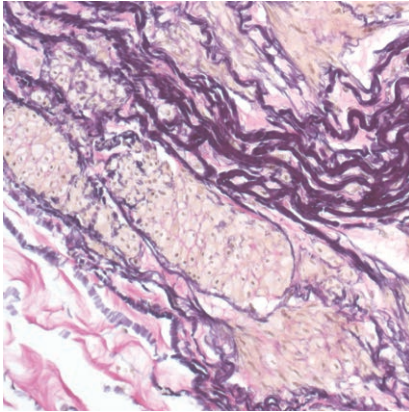
for 100 tests      CR-100T  
3x100 mL      CR-K-100



**Congo Red Puchtler kit**

Four-reagent kit for staining amyloids, characteristic by its high ionic strength and pH enhancing specificity of Congo Red dye binding to amyloid clusters. Method developed by Puchtler remains the gold standard for amyloids in tissue sections. Amyloid clusters have the property of double refraction that enables green coloration under polarized light.

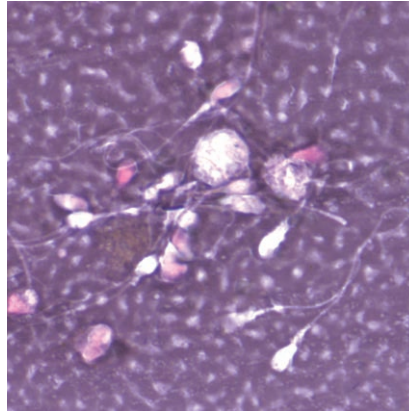
for 100 tests      CRP-100T  
for up to 300 tests      CRP-K-100



**Elastica-Van Gieson kit**

Four-reagent kit for staining elastic fibers and differentiation between elastic tissue, collagen and other types of connective tissue. The rapid method enables a satisfactory result with shorter section staining time.

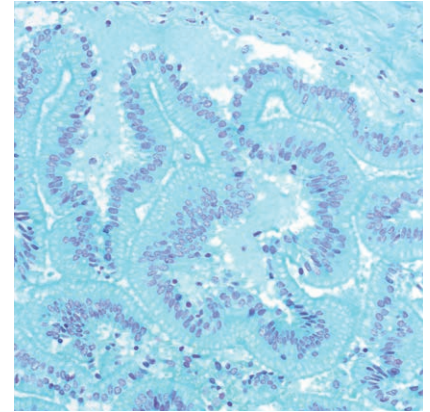
for 100 tests      WVGB-100T  
4x100 mL      WVGB-K-100



**Eosin and nigrosine vital kit**

Two-reagent kit containing separate dyes for rapid detection of sperm vitality and simple visualization of dead and living sperm cells. The nigrosin stain provides dark background for easier recognition of both viable and non-viable spermatozoa.

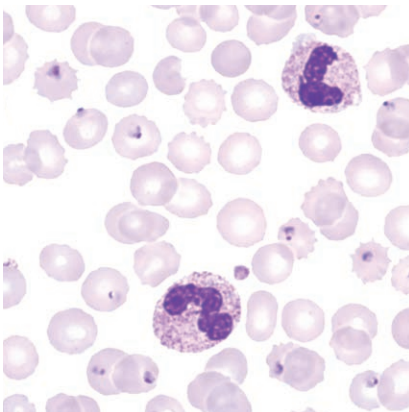
2x30 mL      ENVK-K-30  
2x100 mL      ENVK-K-100



**Feulgen kit**

Five-reagent DNA staining kit according to Feulgen. For use in semiquantitative DNA determination in histological and cytological samples. Specimen is first treated with hydrochloric acid creating an aldehyde group of DNA that can be visualized by Schiff (BioSchiff) reagent. This reaction is specific for nuclear DNA.

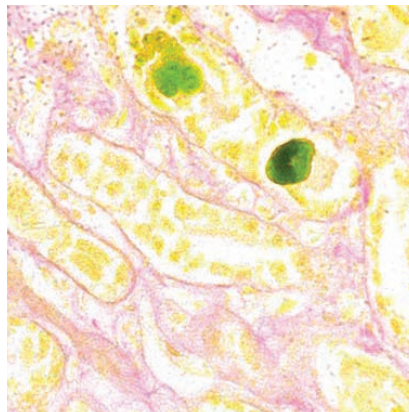
for 100 tests      FE-100T  
6x100 mL      FE-K-100



**Field kit**

Ready-to-use two-reagent kit for rapid and efficient staining and detection of parasites in hematology samples. Primarily used for staining thin and thick blood smears (dense drop) for purpose of diagnosing blood parasites. Reagents are stored in containers that can be used as staining jars.

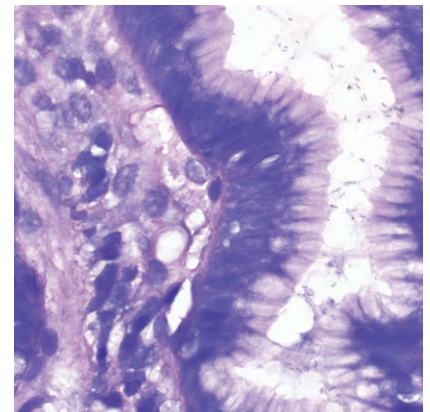
for 100 tests      FD-100T  
2x500 mL      FD-K-500



**Fouchet-Van Gieson kit**

Three-reagent kit for visualization of bilirubin and collagen according to Kutllick. Bilirubin is a yellow-brown pigment, but changes to green due to oxidation induced by Fouchet reaction. Green bilirubin can easily be detected on yellowish and pink colored background.

for 100 tests      FVG-100T  
3x100 mL      FVG-K-100

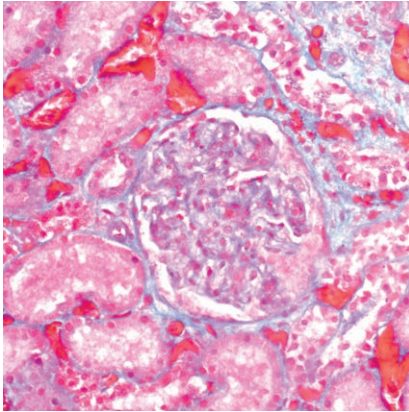


**Giemsa HP kit**

Four-reagent kit for staining *Helicobacter pylori* in gastroscopic sections according to Lennart. Advantages of this method for detecting *H. pylori* are sensitive and reproducible results and easy performance.

for 100 tests      GMHP-100T

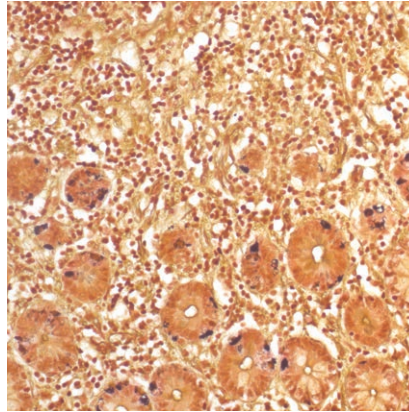




**Gomori Trichrome kit**

Five-reagent kit for staining muscle, collagen fibre and nuclei, contains blue counterstain. Kit can be used to contrast skeletal, cardiac or smooth muscle.

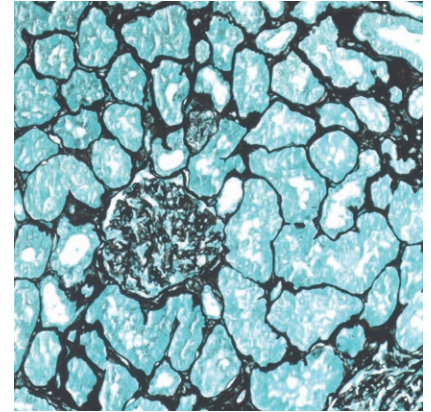
for 100 tests      GT-100T  
5x100 mL      GT-K-100  
\* Green counterstain also available



**Grimelius kit**

Five-reagent kit for staining argyrophilic granules. Grimelius kit can be used for detection of secretory intracytoplasmic granules specific for carcinoid tumors and for identification of neuroendocrine cells.

for 100 tests      GRI-100T  
5x100 mL      GRI-K-100

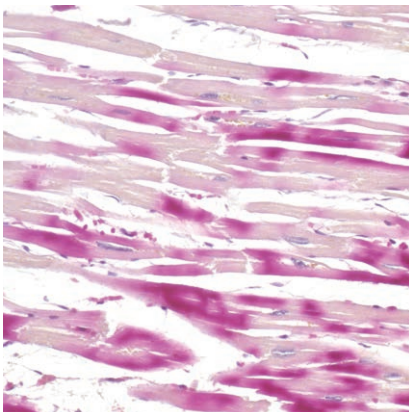


**Grocott kit, stabilized**

Seven-reagent kit for visualization of fungi and histological argentaaffin structures in general (such as basal membranes). Green counterstain provides clear and visually rich contrast to target structures stained black.

for 100 tests      GRC-100T  
300-350 tests      GRC-K-100

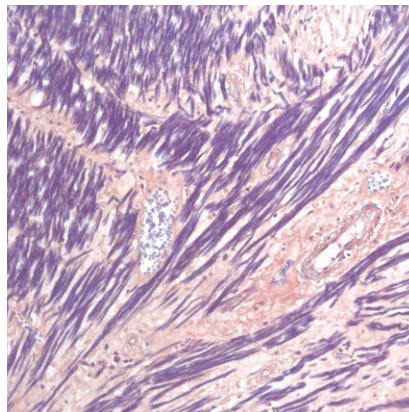
Stable at room temperature



**H.B.F.P. kit**

Three-reagent Hematoxylin-Basic Euchsin-Picric acid staining kit for detection of cardiac muscle changes after ischemia or myocardial infarction. H.B.F.P. kit is a non-enzymatic histochemical technique used for identification of early myocardial ischemia occurring on the cardiac muscle during the first six hours of symptoms.

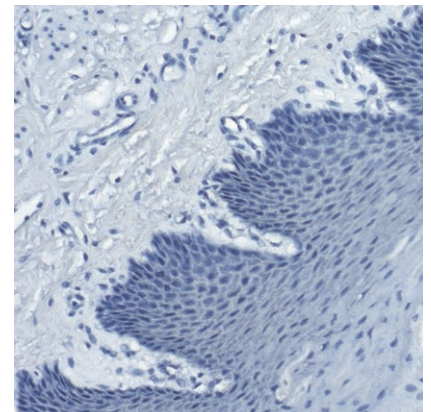
for 100 tests      HBFP-100T  
3x100 mL      HBFP-K-100



**Hematoxylin P.T.A. kit**

Four-reagent Hematoxylin-Phosphotungstic Acid kit for differentiation of smooth and striated muscle tissues as well as for detection of fibrin, collagen and elements of central nervous system according to Mallory.

for 100 tests      HPTA-100T  
4x100 mL      HPTA-K-100

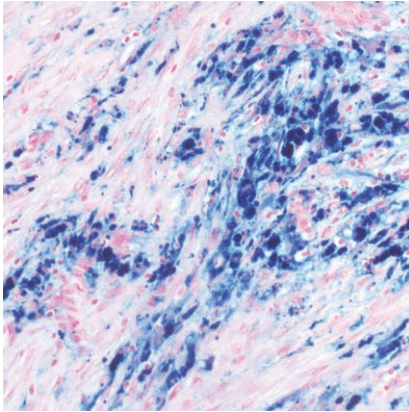


**Hematoxylin W kit**

Acid-resistant hematoxylin according to Weigert. Two-reagent kit that stains the nuclei blue-black, often a component of special staining kits for connective tissues.

for 100 tests      HEMW-100T  
2x100 mL      HEMW-K-100  
2x500 mL      HEMW-K-500  
2x1000 mL      HEMW-K-1L

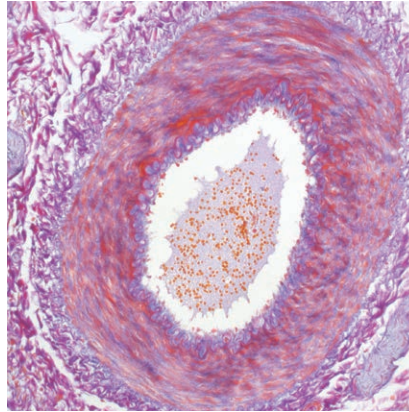




**HemoGnost Perls kit**

Three-reagent HemoGnost Perls (Prussian blue / Berlin blue) kit for the detection of reactive ferric (Fe<sup>3+</sup>) ions in tissue cells (like spleen or endometrial tissue). When staining bone marrow or other hematology tissue, use LeukoGnost PERLS kit (page 32).

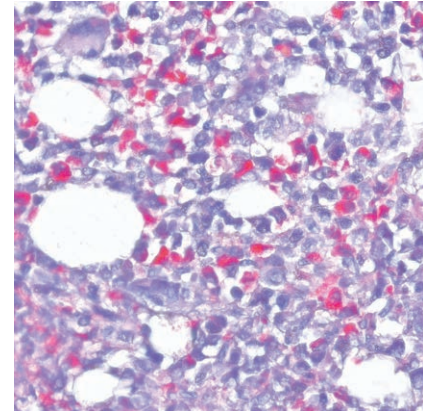
for 100 tests      HP-100T  
3x250 mL          HP-K-250



**Ladewig Trichrome kit**

Four-reagent kit for staining muscle (brown to red) and collagen fibers with blue counterstain. Staining procedure is easier and faster compared to Masson and Mallory Trichrome staining procedures.

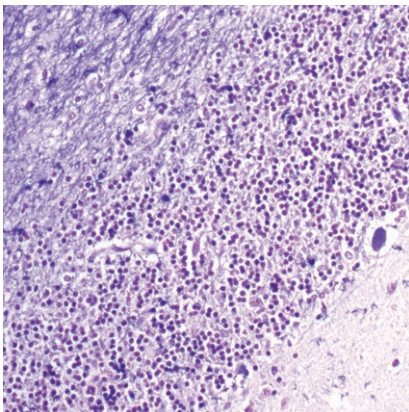
for 100 tests              LDW-100T  
4x100 mL                LDW-K-100



**LeukoGnost SPE kit**

Kit for detection of specific esterase activity (Leder stain, chloroacetate esterase) on formalin-fixed, paraffin-embedded (FFPE) samples of bone marrow tissue.

for at least 100 tests    LKG-SPE



**Luxol Fast Blue kit**

Three-reagent kit for staining myelin and myelinated axons, Nissl bodies and phospholipids according to Kluver-Barrera. Kit is used for identifying the basic neuronal brain structure or spinal cord sections.

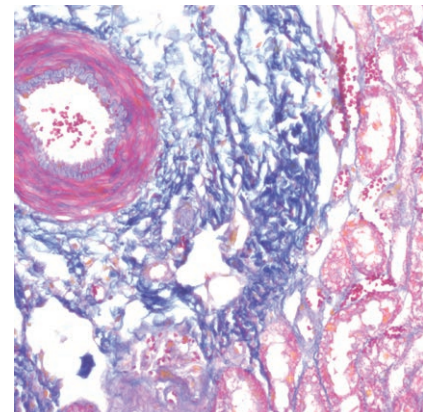
for 100 tests              LFB-100T  
3x100 mL                LFB-K-100



**M.I.F. kit**

Two-reagent Merthiolate-Iodine-Formalin kit for fixing and staining fecal parasites (especially protozoae, cysts, helminth eggs and larvae). Stool sample is fixed with formalin and stained with two coloring agents; iodine and Eosin Y.

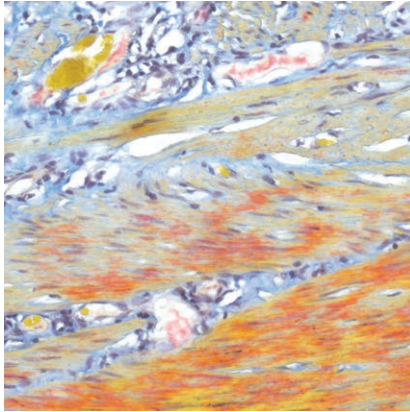
for 100 tests              MIF-100T  
for 200 tests              MIF-200T



**Mallory Trichrome kit**

Three-reagent staining kit for connective tissue visualization and detection of collagen, cartilage, muscle, elastic fibers, mucous, pituitary cells, reticulum, bones, amyloid and erythrocytes.

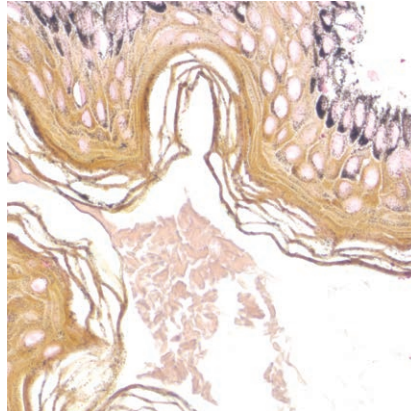
for 100 tests              MT-100T  
3x100 mL                MT-K-100



**Martius Scarlet Blue (MSB) kit**

Seven-reagent kit used for fibrin visualization, especially of older clusters. This method is a modification of Masson Trichrome and is ideal for studying connective tissue and vascular pathology.

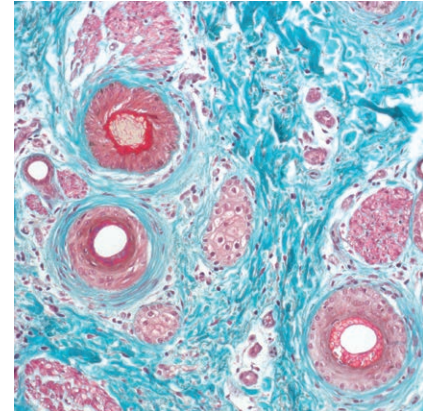
for 100 tests      MSB-100T  
6x100 mL + 1x250   MSB-K-100  
mL



**Masson Fontana kit**

Six-reagent melanine and argentaffin granule staining kit, based on the reduction of silver nitrate to elemental silver. Melanin is a brown-black pigment normally present in hair, skin, retina, iris and certain parts of CNS. Argentaffin granules are found in carcinoid tumors.

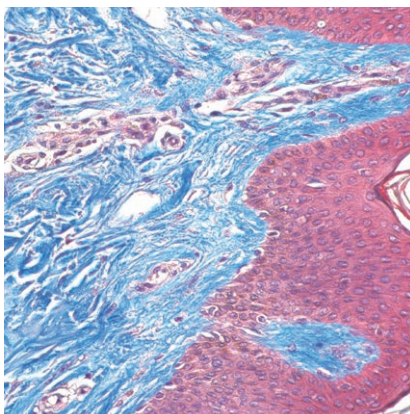
for 100 tests      MF-100T  
9x100 mL      MF-K-100  
9x500 mL      MF-K-500



**Masson-Goldner Trichrome kit**

Seven-reagent kit for staining muscle and collagen fibers with green counterstain. Also used for visualizing gametes, nuclei, neurofibrils, glial cells, keratins, intercellular fibrils and for differentiation of smooth muscle fibers and collagens.

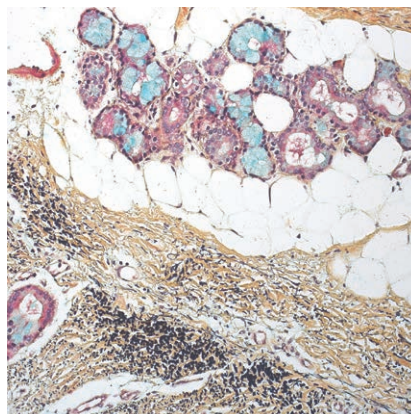
for 100 tests      MGT-100T  
7x100 mL      MGT-K-100  
7x500 mL      MGT-K-500



**Masson Trichrome kit**

Seven-reagent kit for staining muscle and collagen fibers with blue counterstain. Also used for visualizing gametes, nuclei, neurofibrils, glial cells, keratins and intercellular fibrils. Kit may be useful for differentiation between collagen and smooth muscle fibers or detection of diseases like cirrhosis.

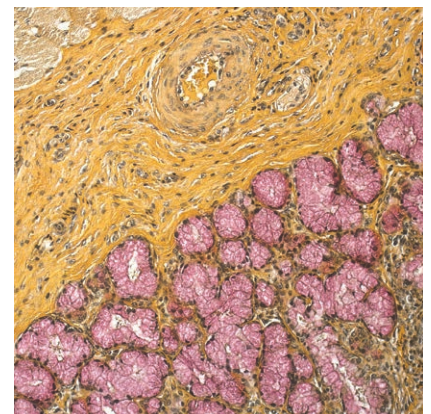
for 100 tests      MST-100T  
7x100 mL      MST-K-100  
7x500 mL      MST-K-500



**Movat kit**

Eleven-reagent kit for staining collagen, elastic and muscle fibers, mucin and fibrin in tissue section. Movat kit is particularly useful when examining heart and vascular diseases.

for 100 tests      MOV-100T  
11x100 mL      MOV-K-100

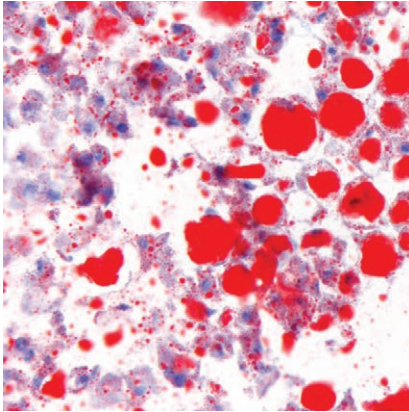


**Mucicarmines kit**

Mucicarmines kit is often used to identify primary tumor sites, distinguishing mucin-negative undifferentiated squamous cell lesions from mucin-positive adenocarcinomas. Can be also used for detection of diseases such as asthma, bronchitis, chronic obstructive pulmonary disease and cystic fibrosis.

for 100 tests      MUC-100T  
5x100 mL      MUC-K-100

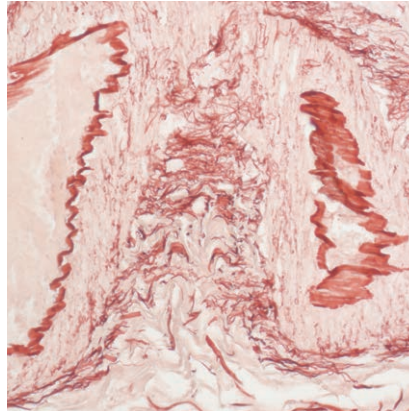




**Oil Red O kit**

Four-reagent kit for selective staining and detection of fat cells and neutral fats according to Johnson. Can be used with frozen sections and fresh smears to detect obesity-linked pathologies such as dyslipidemia and diabetes.

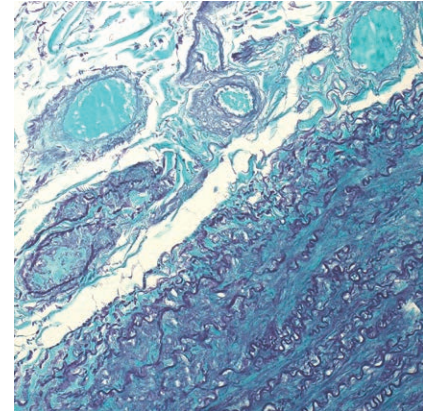
for 100 tests      ORO-100T  
4x250 mL      ORO-K-250



**Orcein kit**

Five-reagent kit for visualization of hepatitis B surface antigen (HBsAg) seen as viral inclusion bodies in hepatocytes, for elastic fibers and copper associated protein in tissue sections. Can be used with frozen sections.

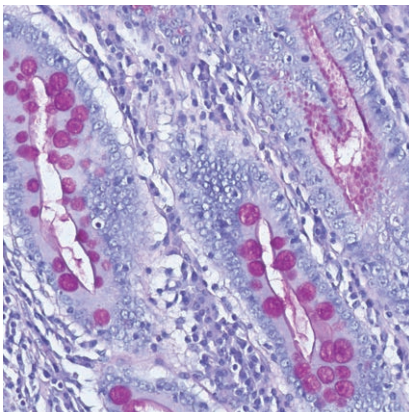
for 100 tests      ORC-100T  
5x250 mL      ORC-K-250



**Paraldehyde Fuchsin kit**

Seven-reagent kit according to Gomori for detecting pathological changes in elastic fibers. It also stains mast cell granules, beta granules in pancreatic islets, neurosecretory material, mast cell granules and beta cells in the pituitary gland.

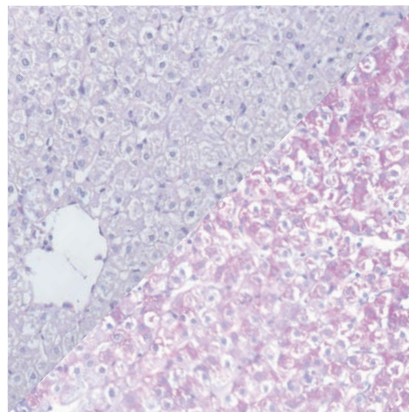
for 100 tests      PAF-100T  
9x100 mL      PAF-K-100



**P.A.S. kit**

Five-reagent Periodic Acid-Schiff kit for staining aldehydes, mucopolysaccharides, mucoproteins and lymphocytes according to Hotchkiss-McManus. P.A.S. staining may also be used for the demonstration of fungal organisms in tissue sections.

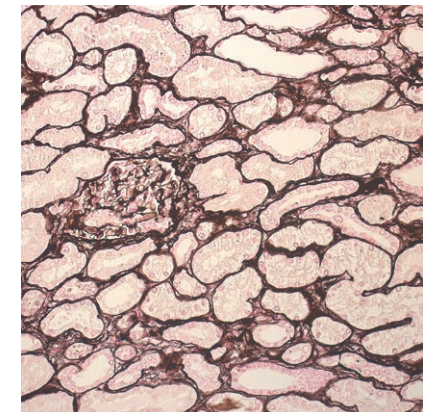
for 100 tests      PAS5-100T  
5x100 mL      PAS5-K-100  
5x500 mL      PAS5-K-500



**P.A.S. Diastase kit**

Five-reagent kit for detecting glycogen and mucopolysaccharide structures mostly in liver. The diastase digestion procedure, followed by P.A.S. staining, is useful in the evaluation of glycogen storage disease.

for 100 tests      PDIA-100T



**P.A.S.M. / Jones kit, stabilized**

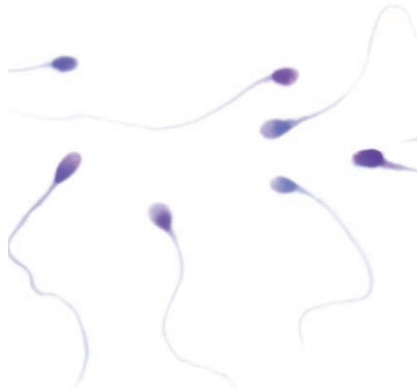
Seven-reagent Periodic Acid Silver Methenamine kit for staining kidney glomerular basement membranes. Kit includes red counterstain which provides visually rich contrast to target structures stained black.

for 100 tests      PASM-100T  
300-350 tests      PASM-K-100

Stable at room temperature



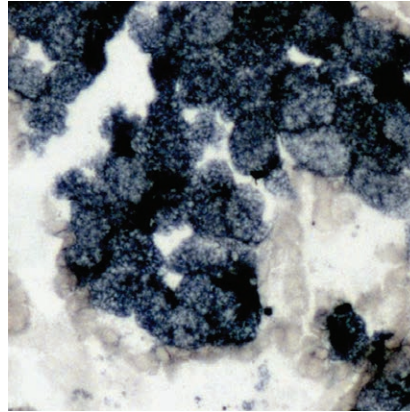




**Sperm-Diff RTU kit**

Ready-to-Use three-reagent kit with reagents stored in containers that can be used as staining jars. Kit contains fixative reagent, red and blue components for fast and effective staining.

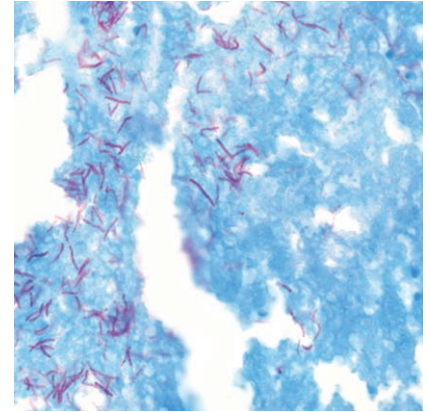
3x100 mL                      SP-RTU-100



**Sudan Black B Lipid kit**

Four-reagent kit 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.

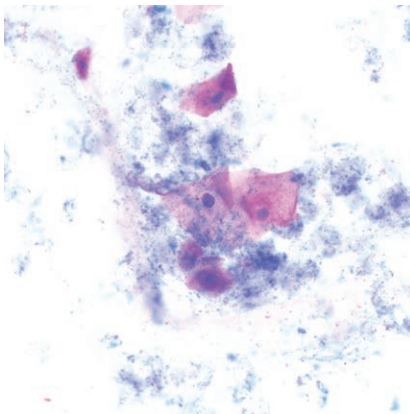
for 100 tests                      SBB-100T  
6x100 mL                      SBB-K-100



**TB-Stain Histo kit**

Three-reagent kit for staining acid-fast bacteria (pathogenic mycobacteria) in histology sections, sputum, smears and culture smears according to Ziehl-Neelsen. Heating of the carbol-fuchsin solution is avoided in this protocol hence the release of hazardous phenolic vapors is omitted.

for 100 tests                      TBHK-100T



**UriGnost S kit**

Kit for sampling, staining, and microscopic analysis of urine sediment. Contains modified reagent according to Sternheimer (reagent manufactured 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 (test tubes with retentive bottom, Eppendorf 200 µL pipette tips and urine plates).

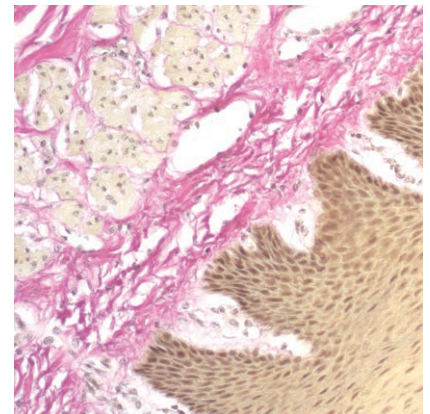
for 500 tests                      USK-500  
\* for more information, see page 57



**UriGnost SM kit**

Kit for sampling, staining and microscopic analysis of urine sediments. Contains modified reagent according to Sternheimer-Malbin and equipment required for sampling, concentration, staining, counting of kidney cells and kidney cylinders and urine sediment analysis (test tubes with retentive bottom, Eppendorf 200 µL pipette tips and urine plates).

for 500 tests                      USMK-500  
\* for more information, see page 57

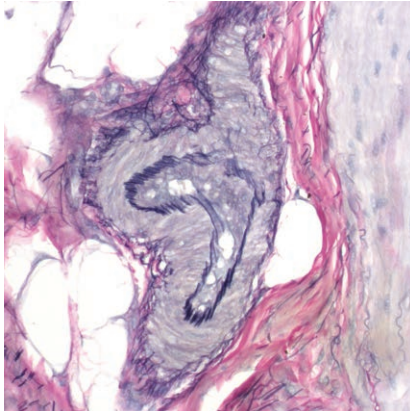


**Van Gieson Trichrome kit**

Three-reagent kit for staining collagen fibers, muscle tissue, keratinized epithelium, cytoplasm, glial fibers and erythrocytes. Used for differentiation between collagen and smooth fibers in tumors and various other diseases.

for 100 tests                      VG-100T  
3x100 mL                      VG-K-100  
3x500 mL                      VG-K-500

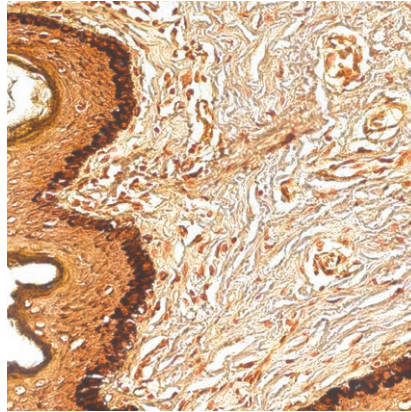




**Verhoeff kit**

Six-reagent kit for detecting atrophy of elastic tissue in cases of emphysema, thinning and loss of elastic fibers in arteriosclerosis and other vascular diseases, or whether blood vessels have been invaded by a tumor.

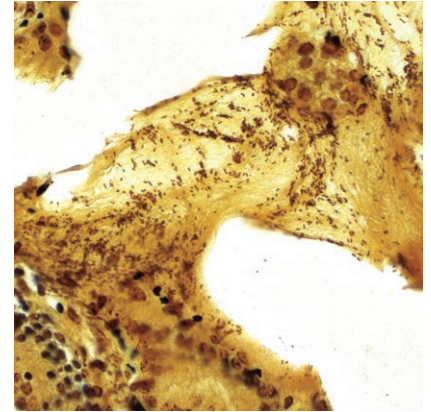
for 100 tests      VER-100T  
6x100 mL      VER-K-100



**Von Kossa kit**

Five-reagent kit for simple and reproducible detection of calcium deposits and calcium salt in tissue samples according to Von Kossa. Tissue calcification is associated with metabolic problems in various tissues (like bone marrow and mamma) and in tumors.

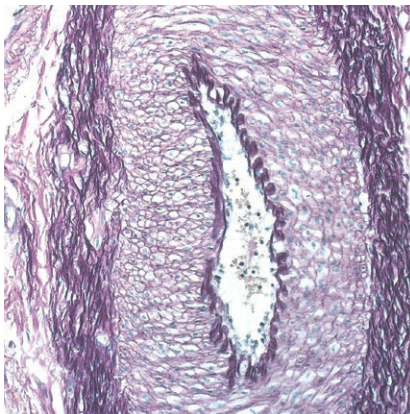
for 100 tests      VK-100T  
5x100 mL      VK-K-100



**Warthin Starry kit**

Five-reagent kit for staining *Spirochaeta spp.*, *Helicobacter pylori*, *Microsporidia spp.* and *Legionella pneumophila*. 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. The bacteria are found in the mucus of the surface epithelium, in the apical gastric glands and in the gastric mucosa.

up to 48 tests      WS-12T



**Weigert-Van Gieson kit**

Six-reagent kit for staining elastic fibers with prolonged incubation period. Used for differentiation between elastic tissue, collagen and other types of connective tissue.

for 100 tests      WVG-100T  
6x100 mL      WVG-K-100



# Additional staining reagents and solutions

Solutions and reagents (buffers, special stains, developer solutions and reagents for differentiation or counterstaining) that are either standalone reagents or components of special staining kits.

## Staining reagents and solutions

### 4% Formaldehyde, alcoholic solution

For use with Reticulin and Reticulin Contrast staining kits.

100 mL F4A-OT-100



### Acetic buffer, Grimelius

For use with Grimelius kit

100 mL APG-OT-100

### Acid alcohols

For use with Azan Trichrome and Orcein staining kits.

Acid alcohol, Azan ● 100 mL KAA-OT-100  
250 mL KAA-OT-250

Acid alcohol, Orcein ● 250 mL KAO-OT-250

### Acid solution

For preparation of impregnation solution with Warthin Starry kit.

500 mL KOT-OT-500

### Acridine Orange solution

Acridine Orange aqueous solution is used as fluorescent dye for differential staining of DNA and RNA, acid mucins and detecting apoptosis; in cytogenetics for displaying structures containing abundant amounts of DNA. Also enables detection of microorganisms in blood smears.

100 mL AOA-OT-100  
500 mL AOA-OT-500  
1000 mL AOA-OT-1L

### A.F.O.G. reagent

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

100 mL AFOG-OT-100

### Alcian Blue solution 1%

Alcian Blue 8GX dye 1% aqueous solution.

100 mL AB1-OT-100  
500 mL AB1-OT-500

### Alcian Blue solution pH 1.0

Reagent for staining heavily sulfated mucopolysaccharides. A component of Alcian Blue pH 1.0 kit.

100 mL AB10-OT-100  
500 mL AB10-OT-500  
1000 mL AB10-OT-1L

### Alcian Blue solution pH 2.5

Reagent for staining acid mucopolysaccharides of intestinal goblet cells. A component of Alcian Blue-P.A.S. and Alcian Blue pH 2.5 staining kits.

100 mL AB2-OT-100  
500 mL AB2-OT-500  
1000 mL AB2-OT-1L

### Alkaline alcohol, solution

For use with Movat kit.

100 mL ALA-OT-100





## Additional staining reagents and solutions

### Ammonium water

For use with Bielschowsky kit.

100 mL AV-OT-100

### Ammonium iron sulfate, solution

For use with Reticulin and Reticulin Contrast staining kits.

100 mL ASF-OT-100

### Aniline, alcoholic solution

For use with Azan Trichrome kit.

100 mL ANA-OT-100  
250 mL ANA-OT-250

### Aniline Blue reagent

Counterstain used with Masson Trichrome kit.

100 mL ABR-OT-100  
500 mL ABR-OT-500

### Aniline Blue, solution

For use with MSB kit.

100 mL ABO-OT-100

### Azan reagent

For use with Azan Trichrome kit.

100 mL AZR-OT-100  
250 mL AZR-OT-250

### Azocarmine, solution

For use with Azan Trichrome kit.

100 mL AZ-OT-100  
250 mL AZ-OT-250

### Basic Activation buffer

For use with Oil Red O kit.

250 mL BAP-OT-250

### Benedict's reagent

For detecting glucose in urine.

100 mL BNR-OT-100  
250 mL BNR-OT-250  
500 mL BNR-OT-500  
1000 mL BNR-OT-1L

### Biebrich Scarlet-Acid Fuchsin reagent

For use with special kits.

100 mL BSAF-OT-100  
500 mL BSAF-OT-500

### BioSchiff reagent

Schiff's reagent for detecting aldehydes and mucous substances. A component of several special staining kits.

100 mL BS-OT-100  
500 mL BS-OT-500  
1000 mL BS-OT-1L

### BioSchiff Forte

Reagent for use with LeukoGnost PAS kit. Enhanced formulation of Schiff reagents for staining cytoplasm of neutrophils, monocytes, lymphocytes and basophils intensive magenta.

100 mL BSF-OT-100  
500 mL BSF-OT-500

### Borax, solution

For use with Grocott and P.A.S.M./Jones kits.

100 mL BO-OT-100  
105 mL BO-OT-105  
250 mL BO-OT-250

SCHIFF'S REAGENT  
STABLE AT 22°C\*



\* In an unopened original packaging. Keep refrigerated after first use.

**Chromotrope 2R / Aniline Blue reagent**

Blue counterstain reagent, component of BioGnost's Gomori Trichrome kit.

100 mL CABR-OT-100

**Chromotrope 2R / Fast Green F.C.F. reagent**

Alternative green counterstain reagent, usually used with Gomori Trichrome kit.

100 mL CFG-OT-100

**Colloidal Iron, stock solution**

Reagent for binding ferric ions to acid mucopolysaccharides and proteoglycans.

100 mL KOL-OT-100

**Congo Red Puchtler reagent**

For use with Congo Red Puchtler kit.

100 mL CRPR-OT-100

**Congo Red reagent**

For use with Congo Red Highman kit.

100 mL CR-OT-100

**Cresyl Violet, solution**

For use with Luxol Fast Blue kit.

100 mL CV-OT-100

**Developer stock solution**

For use with Bielschowsky kit.

50 mL STR-OT-50

**Differentiation reagents based on acetic acid**

For use with special staining kits in histopathology.

Reagent for differentiation in Gomori Trichrome kit 100 mL RDG-OT-100

Acetic acid, 0.5% solution 100 mL OK05-OT-100

Acetic acid, 1% solution 100 mL OK1-OT-100  
500 mL OK1-OT-500

Acetic acid, Colloidal Iron (A) solution ● 250 mL OKA-OT-250

Acetic acid, Colloidal Iron (B) solution 100 mL OKB-OT-100

**Differentiation reagents based on hydrochloric acid**

For use with special staining kits in histopathology.

HCL reagent, A.F.O.G. ● 100 mL HCLAF-OT-100

HCL reagent, Alcian Blue 100 mL HCLAB-OT-100

HCL reagent, Colloidal Iron ● 100 mL HCLK-OT-100

HCL reagent, Feulgen ● 100 mL HCLF-OT-100

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

**Ehrlich aldehyde reagent**

Reagent for detecting urobilinogen in urine.

100 mL EAR-OT-100

**Eosin-nigrosin vital**

Fast detection (one-step detection) of sperm vitality and visualization of dead and living sperm cells with one reagent. Simple, easy and fast method for semen analysis.

30 mL ENV-30  
100 mL ENV-100

**Eosin Y, isotonic solution**

Aqueous solution of Eosin Y used with Eosin and nigrosin vital kit.

100 mL EIO-OT-100

**ErioGnost reagent**

Acid fast reagent for nuclear staining, comparable to hematoxylin staining. Ecologically acceptable synthetic replacement for hematoxylin reagents.

100 mL ERS-OT-100  
500 mL ERS-OT-500  
1000 mL ERS-OT-1L

**Fast Green F.C.F. reagent**

Counterstain used with Masson-Goldner Trichrome and Paraldehyde Fuchsin staining kits.

100 mL FGR-OT-100  
500 mL FGR-OT-500

**Fast Green F.C.F. contrast reagent**

Counterstain used in Grocott and Feulgen staining kits.

100 mL FGKR-OT-100

**Field, solution A**

Blue component of Field kit.

100 mL FDA-RTU  
500 mL FDA-OT-500

**Field, solution B**

Red component of Field kit.

100 mL FDB-RTU  
500 mL FDB-OT-500

**Ferri reagent, Verhoeff B**

For use with Verhoeff kit.

100 mL FRV-OT-100

**Ferri reagent, Weigert B**

Iron(III) nitrate solution in diluted hydrochloric acid, a component of Hematoxylin W kit.

100 mL FR-OT-100  
500 mL FR-OT-500  
1000 mL FR-OT-1L

**Fuchsin Acid reagent**

For use with Mallory Trichrome kit.

100 mL FA-OT-100



## Additional staining reagents and solutions

### Fuchsin Acid Van Gieson reagent

For use in special staining kits.  
Synonym: Picrofuchsin reagent.

100 mL FAG-OT-100

### Fuchsin Basic reagent

For use in bacteriology.

100 mL FBR-OT-100  
500 mL FBR-OT-500  
1000 mL FBR-OT-1L

### Fuchsin Basic, solution

For use with H.B.F.P. kit.

100 mL FBO-OT-100

### Gelatin, gel in transport jar

For preparing developing solution with Warthin Starry staining kit.

12x8 mL GEL-128



### Glutaraldehyde, 4% buffered solution

Solution used with Sudan Black B kit.

100 mL G4-OT-100



### Gold chloride solutions

Aqueous solutions of gold chloride (aurichloric acid,  $\text{HAuCl}_4$ ), component of many special staining kits.

Gold chloride, 0.2% solution	100 mL	ZK02-OT-100
Gold chloride, 0.6% solution	100 mL	ZK06-OT-100
Gold chloride, 1% solution	50 mL	ZK1-OT-50
Gold chloride, 2% solution	50 mL	ZK2-OT-50

### Hematoxylin, Verhoeff A

For use with Verhoeff and Movat kits.

100 mL HEMV-OT-100



### Hematoxylin, Weigert A

Hematoxylin solution in ethanol, component of Hematoxylin W kit.  
Part of several special staining kits.

100 mL HEMA-OT-100  
500 mL HEMA-OT-500  
1000 mL HEMA-OT-1L



### Hydroquinone, solution

For preparation of developing solution in Warthin Starry kit.

50 mL HQ-OT-50



### Hydroquinone-sodium sulphite

For use with Grimelius kit

15 x 3,5 g HNS-15-35

### Iodine solution, Verhoeff C

For use with Verhoeff and Movat kits.

100 mL JODV-OT-100

### Iron chloride, solution

For use with Fouchet-Van Gieson kit.

100 mL FK-OT-100

### Kovac indole reagent

Reagent for identification of indole-positive and indole-negative microorganisms.

100 mL KOV-OT-100



### Ladewig's reagent

For use with Ladewig Trichrome kit, contains Aniline Blue, Acid Fuchsin and Orange G dyes.

100 mL LDWR-OT-100

### Light Green S.F. reagent

Counterstain used with trichrome special staining kits.

100 mL LGS-OT-100

### Lithium carbonate, Luxol

Lithium carbonate solution used with Luxol Fast Blue kit.

100 mL LKL-OT-100

### Lithium carbonate, solution

Lithium carbonate solution used with Von-Kossa staining kit.

100 mL LK-OT-100

### Lugol's solution, M.I.F.

For use with M.I.F. kit.

100 mL LUGM-OT-100

### Luxol Fast Blue, solution

For use with Luxol Fast Blue kit.

100 mL LFB-OT-100



### M.F. reagent

For use with M.I.F. kit.

100 mL MF-OT-100

### Martius Yellow, solution

For use with MSB kit.

100 mL MAY-OT-100

### Mayer's mucicarmine

For use with Mucicarmine kit.

100 mL MMU-OT-100



### Metanil Yellow, solution

For use with Mucicarmine kit.

100 mL MY-OT-100

**Methenamine, solution**

For use with Grocott and P.A.S.M./Jones kits, stabilized.

100 mL	MET-OT-100
250 mL	MET-OT-250

**Methyl Blue Eosin, solution**

Modified Mann's solution for use in histology.

100 mL	MBE-OT-100
500 mL	MBE-OT-500
1000 mL	MBE-OT-1L

**Neutral Red reagent**

Neutral Red aqueous counterstain solution for use with special staining kits.

100 mL	NR-OT-100
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**Nigrosine, isotonic solution**

Aqueous solution of nigrosine used with Eosin and nigrosine vital kit.

100 mL	NIO-OT-100
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**Nuclear Fast Red (Kernechtrot) reagent**

Nuclear Fast Red dye solution for staining nuclei. Counterstain in many special staining kits.

100 mL	KR-OT-100
250 mL	KR-OT-250
500 mL	KR-OT-500

**Oil Red O reagent**

Lipid substances staining solution.

250 mL	ORO-OT-250
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**Orange G, 1% solution**

For use with Movat kit.

100 mL	ORG1-OT-100
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**Orange G / Aniline Blue reagent**

For use with Mallory Trichrome kit.

100 mL	OGA-OT-100
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**Orcein reagent**

For use with Orcein kit.

250 mL	ORCR-OT-250
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**Oxalic acid solutions**

For use with several special staining kits.

Oxalic acid, 1% solution	100 mL	OKS1-OT-100
Oxalic acid, 2% solution	250 mL	OKS2-OT-250

**Paraldehyde Fuchsin reagent**

Reagent for staining elastins and mucins.

100 mL	PAF-OT-100
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**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./Jones, stabilized, Grocott kit, stabilized and Weigert-Van Gieson kit.

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

**Picro-Sirius Red reagent**

For use with Picro-Sirius Red kit for collagen staining and differentiation.

100 mL	PSR-OT-100
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**Phosphomolybdic acid, 1% solution**

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

100 mL	FMK1-OT-100
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**Phosphomolybdic acid, 5% solution**

For use with Azan Trichrome kit.

100 mL	FMK5-OT-100
250 mL	FMK5-OT-250

**Phosphotungstic acid, 1% solution**

For use with Martius Scarlet Blue (MSB) kit.

100 mL	FVK1-OT-100
500 mL	FVK1-OT-500

**Phosphotungstic acid, 5% solution**

For use with Movat kit.

100 mL	FVK5-OT-100
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**Picric acid in acetone, solution**

For use with H.B.F.P. and BioGram Histo kits.

100 mL	PKA-OT-100
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**Ponceau S, solution**

For use with MSB kit.

100 mL	PONS-OT-100
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**Potassium hexacyanoferrate, Colloidal Iron solution**

Potassium hexacyanoferrate (II) solution for use with Colloidal Iron kit.

100 mL	KHCK-OT-100
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## Additional staining reagents and solutions

### Potassium hexacyanoferrate, solution

Potassium hexacyanoferrate (II) solution, optimally concentrated for use with HemoGnost Perls kit.

100 mL	KHC-OT-100
250 mL	KHC-OT-250

### Potassium hydroxide, solution

Optimally concentrated aqueous solution of potassium hydroxide used with Congo Red Highman kit.

100 mL	KHO-OT-100
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### Potassium permanganate, solutions

For use with Hematoxylin P.T.A., Masson Fontana, Orcein, Paraldehyde Fuchsin and Reticulin staining kits.

Potassium permanganate, 0.5% solution	100 mL	KP05-OT-100
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Potassium permanganate, 1% solution	250 mL	KP1-OT-250
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### Propylene glycol

For use with Sudan Black B Lipid kit.

100 mL	PG-100
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### Propylene glycol, 85%

For use with Sudan Black B Lipid kit.

100 mL	PG85-100
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### P.T.A. - P.M.A. reagent

Reagent containing optimal concentration of phosphotungstic and phosphomolybdic acid. Used with Masson Trichrome and Masson-Goldner Trichrome staining kits.

100 mL	PPR-OT-100
500 mL	PPR-OT-500

### Reagent for differentiation in Verhoeff kit

For use with Verhoeff kit.

100 mL	RDV-OT-100
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### Reducing buffer, solution

For use with Von Kossa kit.

100 mL	RP-OT-100
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### Resorcine Fuchsin reagent

For use with Weigert-Van Gieson kit.

100 mL	RFR-OT-100
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### Rhodanine reagent

For use with Rhodanine kit.

100 mL	RR-OT-100
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### Safranin O reagent

Counterstaining reagent for use in histology and cytology. Used for visualizing and staining cartilage, mucins and mastocytes in formalin-fixed and paraffin-embedded tissue samples.

100 mL	SAFO-OT-100
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### Silver nitrate solutions

For use in special staining kits.

Silver ammonia solution (component of Reticulin and Reticulin Contrast staining kits) ●	100 mL	SA-OT-100
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Silver ammonia reagent (component of Von Kossa and Masson Fontana staining kits) ●	100 mL	SAR-OT-100
------------------------------------------------------------------------------------	--------	------------

Silver ammonia reagent stock solution (component of Bielschowsky staining kit) ●	100 mL	SSAR-OT-100
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Silver nitrate, 20% solution (component of Bielschowsky staining kit) ●	100 mL	SN20-OT-100
-------------------------------------------------------------------------	--------	-------------

Silver nitrate solution, stabilized (component of Grocott and P.A.S.M. / Jones, stabilized staining kits)	100 mL	SNS-OT-100
-----------------------------------------------------------------------------------------------------------	--------	------------

Silver nitrate, WS solution (component of Warthin Starry staining kit) ●	100 mL	SNWS-OT-100
--------------------------------------------------------------------------	--------	-------------

### Sodium acetate, solution

For use with Rhodanine kit.

100 mL	NA-OT-100
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### Sodium hydroxide, solution

For use with Congo Red Puchtler kit.

30 mL	NH-OT-30
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### Sodium metabisulfite solutions

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

Sodium metabisulfite	100 mL	NM-OT-100
	500 mL	NM-OT-500

Sodium metabisulfite, solution for Feulgen	100 mL	NMF-OT-100
--------------------------------------------	--------	------------

### Sodium tetraborate, solution

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

100 mL	NTB-OT-100
500 mL	NTB-OT-500

### Sodium thiosulfate solution

Solutions are component of Grocott stabilized, Masson Fontana, P.A.S.M. / Jones, stabilized, Reticulin, Reticulin Contrast and Von Kossa staining kits.

Sodium thiosulfate, 2% solution	100 mL	NT2-OT-100
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Sodium thiosulfate, 5% solution	100 mL	NT5-OT-100
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### Sudan Black B, solution

Solution for staining lipids, used with Sudan Black B lipid kit.

100 mL	SBO-OT-100
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### Sudan Black B reagent

Staining reagent for use in hematology, used with Sudan Black B kit.

100 mL                      SBB-OT-100



### Sulfosalicylic acid, 20% solution

Reagent for detecting proteins in urine.

100 mL                      SSK-OT-100

### Sulfuric acid solutions

Used with Orcein, Paraldehyde Fuchsin and Reticulin staining kits.

Sulfuric acid, 0.3% solution	250 mL	SK03-OT-250
Sulfuric acid, 0.5% solution	100 mL	SK05-OT-100
Sulfuric acid, 3% solution	100 mL	SK3-OT-100

### Trichloroacetic acid, solution

For use with Fouchet-Van Gieson kit.

100 mL                      TKO-OT-100



### Toluidine Blue, solution

Solution for nuclear staining and metachromatic staining of mastocytes in connective tissue.

100 mL                      TB-OT-100  
250 mL                      TB-OT-250

### UriGnost S reagent

Modification according to Sternheimer for staining and microscopical analysis of urine sediment. A component of UriGnost S kit.

UriGnost S reagent                      50 mL                      UGS-500

UriGnost S reagent                      100 mL                      UGS-1000

\* for more information, see page 49

### UriGnost SM reagent

Modification according to Sternheimer-Malbin for staining and microscopical analysis of urine sediment. A component of UriGnost SM kit.

UriGnost SM reagent                      50 mL                      UGSM-500

UriGnost SM reagent                      100 mL                      UGSM-1000

\* for more information, see page 49





# Powder dyes and stains

In addition to ready-to-use reagents, powder dyes and stains used for preparation of staining solutions according to individual preferences are also available.

### **Acridine Orange, C.I. 46005**

Basic Orange 14. For staining acid mucopolysaccharides, apoptosis detection, differential staining of RNA and DNA.

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.

5 g CA8GX-P-5  
10 g CA8GX-P-10  
25 g CA8GX-P-25

### **Alcian Green**

Ingrain Green 2. For staining cartilage, sulfated and carboxylated mucopolysaccharides.

10 g ALG-P-10

### **Alcian Yellow, C.I. 12840**

Ingrain Yellow 1. Used for distinguishing types of glycosaminoglycans and for detection of neurosecretory material.

10 g AY-P-10

### **Amido Black 10B, C.I. 20470**

Naphthol blue black, Acid Black 1. For collagen staining according to Van Gieson trichrome and for hemoglobin and hemosiderin staining according to Puchtler-Swear.

10 g AMB-P-10  
25 g AMB-P-25

### **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.

25 g CAB-P-25

### **Auramine O, C.I. 41000**

Basic Yellow 2, BSC certified stain. For staining acid-fast bacteria.

25 g AU-P-25

### **Azocarmine G, C.I. 50085**

Rosinduline. For staining according to AZAN trichrome method according to Heidenhain.

5 g AZC-P-5

### **Azophloxine, C.I. 18050**

Red 2G, Acid red 1. For staining according to Masson trichrome methods (used instead of red Biebrich Scarlet and Fuchsin Acid stains).

5 g AZO-P-5  
25 g AZO-P-25

### **Azure A, C.I. 52005**

Methylene Azure. For metachromatic staining of mast cells.

25 g AA-P-25

### **Azure B, C.I. 52010**

Azure I. For preparation of Romanowsky stains, for staining nuclei or nuclear components.

25 g AZB-P-25

### **Azure C, C.I. 52002**

Azure C blue. For staining cell nuclei and nuclear components, such as DNA.

25 g AC-P-25

### **Azure II**

Azure II. For preparation of Romanowsky stains, made by mixing Azure B and Methylene Blue stains.

25 g A2-P-25

**Azure II Eosinate**

Azure II eosinate. For preparation of Romanowsky stains, made by mixing equal ratios of Azure B, Methylene Blue and Eosin Y stains.

25 g                                  AE-P-25

**Biebrich Scarlet, C.I. 26905**

Croceine Scarlet, Ponceau B, Ponceau BS, BSC certified stain. For Masson trichrome staining and a component of Shorr's solution.

25 g                                  BS-P-25

**Bismarck Brown Y, C.I. 21000**

Bismarck Brown Y, Vesuvine BA, BSC certified. For use in histopathology and cytology.

25 g                                  BB-P-25

**Brilliant Cresyl Blue, C.I. 51010**

For use in hematology (for reticulocyte staining) and histology (for acid mucopolysaccharides).

10 g                                  BCB-P-10  
25 g                                  BCB-P-25

**Brilliant Green Certified, C.I. 42040**

Malachite Green G, Basic Green 1, Emerald Green. For bacteriostatic use.

25 g                                  BG-P-25

**Carmine, C.I. 75470**

Natural Red 4, Cochineal, Nacarat, carminic acid and aluminum compound. For staining mucins and glycogens.

5 g                                      CAR-P-5  
10 g                                     CAR-P-10  
25 g                                     CAR-P-25

**Carminic acid, C.I. 75470**

Natural Red 4. For staining mucines and glycogen.

5 g                                      CARA-P-5  
10 g                                     CARA-P-10  
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.

10 g                                  CB-P-10  
25 g                                  CB-P-25

**Chromotrope 2R, C.I. 16570**

Acid Red 29, Mordant Blue 80. For counterstaining cytoplasm in histopathology used as eosin substitute in HE staining and in trichrome stains.

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 and for elastic fiber staining.

25 g                                  CR-P-25

**Cresyl Violet Acetate Certified**

Cresyl Violet, Oxazine 9, Cresyl Echt Violet. For use in microbiology and histology.

25 g                                  CVA-P-25

**Crystal Violet, C.I. 42555**

Gentian Violet, Methyl Violet 10B, BSC certified stain. For bacterial staining according to Gram.

25 g                                  CRV-P-25  
50 g                                  CRV-P-50

**Eosin B, C.I. 45400**

Eosin B, Eosin Bluish, Imperial Red, Acid Red 91, BSC certified. For staining according to Romanowsky. Used for staining red blood cells, connective tissues and as counterstain for the Gram stain.

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 preparing EA Pap stains and polychromatic hematological stains.

25 g                                  EOY-P-25  
100 g                                  EOY-P-100  
500 g                                  EOY-P-500

**Eriochrome Cyanine R, C.I. 43820**

Mordant Blue 3, Chromoxane Cyanine R. For use in cytology and histology.

25 g                                  ECR-P-25

**Fast Green F.C.F., C.I. 42053**

Food Green 3, Solid Green F.C.F, 1724 Green, BSC certified stain. For trichrome staining according to Gomori and Masson.

25 g                                  FG-P-25

**Fuchsin Acid, C.I. 42685**

Acid fuchsine, Acid Violet 19, BSC certified stain. For staining connective tissue according to Van Gieson and Mallory.

25 g                                  FA-P-25

**Fuchsin Basic, C.I. 42510**

Basic fuchsine, Basic Violet 14, BSC certified stain. For staining mucins, Negri bodies and acid-fast bacteria.

25 g                                  FB-P-25  
100 g                                  FB-P-100

**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 according to Feulgen and acid-fast bacteria staining.

25 g                                  FBS-P-25  
50 g                                  FBS-P-50

**Gentian Violet, C.I. 42555**

Crystal Violet, Methyl Violet 10B, BSC certified stain. For bacterial staining according to Gram.

25 g                                  GV-P-25  
100 g                                  GV-P-100

**Giemsa**

BSC certified stain. Romanowsky dye for staining according to Pappenheim. Polychromatic dye used for identification of chromosomal damage and as a differentiating stain.

25 g                                  G-P-25  
50 g                                  G-P-50



**Hematoxylin, C.I. 75290**

Natural Black 1, BSC certified stain. For preparing nuclear staining reagents.

25 g H-P-25  
100 g H-P-100

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**Janus Green B, C.I. 11050**

Diazine Green, BSC certified stain. For displaying mitochondria in living cells.

25 g JG-P-25

---

**Jenner Stain**

Jenner, BSC certified stain. Romanowsky polychromatic stain routinely used in hematology for staining blood smears.

25 g JS-P-25

---

**Leishman Stain**

Eosin-polychrome Methylene Blue. Romanowsky polychromatic dye. Used to distinguish and identify leukocytes and malaria parasites.

25 g LS-P-25

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**Light Green S.F., C.I. 42095**

Acid Green 5, Pencil Green SF, BSC certified stain. For counterstaining according to Papanicolaou and Masson trichrome methods.

25 g LG-P-25

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**Luxol Fast Blue MBSN, C.I. 74180**

Luxol Fast Blue, Solvent Blue 38. For use in histology.

25 g LFB-P-25

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**Malachite Green, C.I. 42000**

Malachite Green Oxalate, Basic Green 4, Victoria Green, BSC certified stain. Used as counterstain in TB-Stain Cold kit.

10 g MAG-P-10  
25 g MAG-P-25

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**Martius Yellow C.I. 10315**

Golden Yellow, Martinsgelb, Acid yellow 24. For staining erythrocytes yellow in trichrome staining methods.

25 g MAY-P-25

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**May-Gruenwald**

Polychromatic Romanowsky dye. For blood smears and bone marrow staining.

25 g MG-P-25  
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.

25 g MEY-P-25  
50 g MEY-P-50  
100 g MEY-P-100

---

**Methyl Green, C.I. 42590**

For staining nuclei green.

25 g MGR-P-25

---

**Methyl Violet 2B, C.I. 42535**

Basic Violet 1, BSC certified stain. For bacterial staining according to Gram.

25 g MV2B-P-25

---

**Methyl Violet 10B, C.I. 42555**

Gentian Violet, Crystal Violet, BSC certified stain. For bacterial staining according to Gram.

25 g MV10B-P-25  
50 g MV10B-P-50

---

**Methylene Blue, C.I. 52015**

Basic Blue 9, BSC certified stain. Used for preparing Romanowsky polychromatic stain for staining bone marrow and as a counterstain in staining of acid-fast bacteria.

25 g MB-P-25  
100 g MB-P-100

---

**Methylene Green, C.I. 52020**

Methylene Green, BSC certified stain. For staining nuclei green.

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.

25 g NR-P-25

---

**Nigrosine WS, C.I. 50420**

Nigrosine water soluble, Nigrosine B. For use in microbiology and cytology, as negative staining.

25 g NGR-P-25

---

**Nuclear Fast Red, C.I. 60760**

Kernechtrot. Used for staining nuclei red by creating aluminum complex.

5 g NF-P-5

---

**Oil Red O, C.I. 26125**

Sudan Red 5B, BSC certified stain. For staining lipids.

25 g ORO-P-25

---

**Orange II, C.I. 15510**

Acid Orange 7, BSC certified stain. Used as a counterstain, as a substitute for Orange G.

25 g O2-P-25

---

**Orange G, C.I. 16230**

Acid Orange 10, Acid Fast Orange G, BSC certified stain. For staining keratin according to Papanicolaou, counterstain for hematoxylin.

25 g OG-P-25  
100 g OG-P-100

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**Orcein, C.I. (ed.1) 1242**

Natural Red 28, Orcein Synthetic. For staining elastic tissues and viral inclusion bodies of the hepatitis B surface antigen.

5 g ORC-P-5  
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 according to Kreyberg.

25 g PB-P-25

**Ponceau S, C.I. 27195**

Acid Red 112, Fast Ponceau 2B. For use in electrophoresis.

25 g PS-P-25

**Potassium permanganate**

Synonym: Potassium (VII) manganate, Condy's crystals. Potassium permanganate for use in microscopy.

50 g KPH-P-50  
100 g KPH-P-100

**Pyronine B, C.I. 45010**

Pyronine B, BSC certified stain. For bacterial, mold and RNA staining.

25 g PYB-P-25

**Resorcinol, C.I. 76505**

Resorcin, 1,3-benzendiol. Used for differentiation between aldoses and ketoses in Seliwanoff's test by staining ketose sugars dark red.

25 g RES-P-25

**Rhodamine B, C.I. 45170**

Basic Violet, Acid Red 52. For staining acid-fast bacteria.

25 g RHB-P-25

**Rhodanine**

DMAB-Rhodanine. For staining deposits of copper bound to proteins.

5 g RHO-P-5

**Rose Bengal, C.I. 45440**

Acid Red 94, BSC certified stain. For staining in microscopy and histology.

25 g RB-P-25

**Safranin O, C.I. 50240**

Basic Red 2, Safranin T, Phenazinium, BSC certified stain. Counterstain in the Gram method for detecting Gram-negative bacteria.

25 g SO-P-25

**Sirius Red, C.I. 35780**

Direct Red 80. Used for staining collagen and amyloid in histology.

25 g SR-P-25

**Sudan III, C.I. 26100**

Solvent Red 23, Sudan G, Fat Ponceau G, BSC certified stain. For lipid staining according to Lillie-Ashburn.

25 g S3-P-25

**Sudan IV, C.I. 26105**

Solvent Red 24, Scarlet Red, Biebrich Scarlet R, Fat Ponceau. For staining lipids according to Churukian's modification of Lillie-Ashburn's method.

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.

5 g SB-P-5  
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 bodies in the spinal cord.

25 g TB-P-25  
100 g TB-P-100

**Victoria Blue B, C.I. 44045**

Basic Blue 26, Fat Blue B. For use in cytology and histology.

25 g VBB-P-25

**Victoria Blue R, C.I. 42563**

Basic Blue 8, Fat Blue 4R. For use in microbiology and histology.

25 g VBR-P-25

**Water Blue, C.I. 42755**

Acid Blue 22, BSC certified stain. For staining connective tissue according to Mallory and Gomori trichrome methods.

25 g WB-P-25

**Wright's Stain**

Colorants de Wright, BSC certified stain. Part of polychromatic Romanowsky stains commonly used in hematology.

25 g WS-P-25

**Xylidine Ponceau, C.I. 16150**

Ponceau 2R, Ponceau de Xylidine, BSC certified stain. For Masson trichrome staining.

25 g XP-P-25





# Accessories

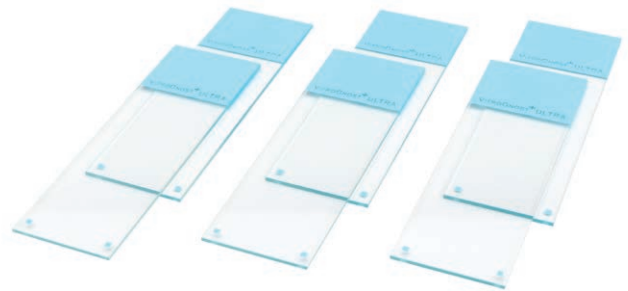
High quality disposable laboratory equipment including glass, plastic and metal items. The product range includes VitroGnost slides for microscopy, sample transport containers and various other accessories.

## VitroGnost® Plus Ultra adhesive microscope slides

These slides are ideal for pathology, cytology, and special immunohistochemistry (IHC). VitroGnost Plus Ultra adhesive slide is a new generation slide with a denser and stronger positive charge on the surface to achieve even better adhesion of the sample. VitroGnost Plus Ultra adhesive slide can be used for many scientific purposes, especially with tissues difficult to fix, like breast tissue and samples of brain and skin. Dimensions: 26x76x1 mm.

72 pcs

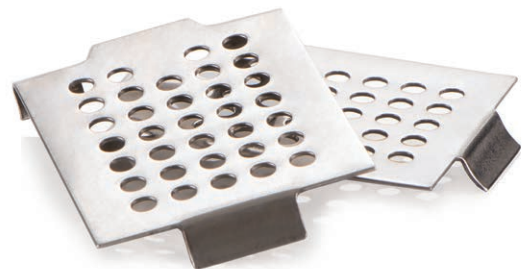
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## Lid for cassettes

Cassette embedding stainless steel lid, standard.

material	packaging	product code
INOX	1 pc	51050103



**Metal histology mold**

dimension	material	packaging	product code
7x7x6 mm	INOX	1 pc	51050707
15x15x6 mm	INOX	1 pc	51051515
24x24x6 mm	INOX	1 pc	51052424
30x24x6 mm	INOX	1 pc	51053024
37x24x6 mm	INOX	1 pc	51053724
65x45x15 mm	INOX	1 pc	BO07-7010

**Biopsy pads for cassettes, blue**

Solvent resistant biopsy pads for small sample processing.

1000 pcs                      SP-1000



**Polypropylene dissecting boards**

Boards for pathohistological tissue dissection made of polypropylene.

Polypropylene, white, dimensions 60x40x1.5 cm	1 pc	BC001
Polypropylene, dark blue, dimensions 39x29.5x2.5 cm	1 pc	BC032
Polypropylene, white, dimensions 40x30x1.5 cm	1 pc	BC061CS





**Bio/Cut microtome blades - high profile**

Bio/Cut H35C microtome blades for cryotome, high profile (wide). Ideal for frozen sections. Suitable for both soft and hard tissues.

50 pcs                      Bio/Cut H35C

**Histoblades Duraedge histology blades - high profile**

HistoBlades Duraedge blades with Teflon coating - high profile.

50 pcs                      7310

**Bio/Cut microtome blades - low profile**

Bio/Cut microtome blades manufactured in order to provide most precise sectioning.

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 histology blades - low profile**

HistoBlades Duraedge blades with Teflon coating - low profile.

50 pcs                      7223

**Histoblades Encore histology blades - low profile**

Extremely sharp new generation Teflon coated blades - low profile.

50 pcs                      7380





**Microtome oil**

Optimal viscosity oil for microtome maintenance.

Microtome oil 50 mL	1 pc	MO-50
Microtome oil 100 mL	1 pc	MO-100



**Polypropylene containers for sample transport**

Container with cover for transporting histology samples and organs.

500 mL	1 pc	PK500
1000 mL	1 pc	PK1000
1200 mL	1 pc	PK1200
2500 mL	1 pc	PK2500
3750 mL	1 pc	PK3750
5000 mL	1 pc	PK5000
7000 mL	1 pc	PK7000
10000 mL	1 pc	PK10000



## Contact and ordering information

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## Technical support

Technical questions can be answered by emailing our sales representatives at [sandra.ban@biognost.hr](mailto:sandra.ban@biognost.hr), [pavle.loncar@biognost.hr](mailto:pavle.loncar@biognost.hr), [viktoria.liber@biognost.hr](mailto:viktoria.liber@biognost.hr) and [andrej.spehar@biognost.hr](mailto:andrej.spehar@biognost.hr).

They will provide you with any MSDS or product information required, also available on our website at [www.biognost.com](http://www.biognost.com).

Frequently Asked Questions (FAQ) section is available on our website.



## Shipping information

Shipping and handling charges are prepaid and added to the invoice. If requested, we can use your account number or carrier of your choice, and also ship on your third-party freight accounts (Incoterms 2020). Charges vary according to destination, weight and content, and are available upon request.

Our employees are trained to classify, package, mark and label products identified as dangerous goods according to ADR, IMDG and IATA to ensure safe transport.



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