



Improving Pathology

GENERAL CATALOGUE



Improving Pathology

A by-word for histology for over 40 years

Innovation, experience and the quest for perfection are the key to our success.

In business since 1977, we are an established company that offers the highest standards across the board and a unique and comprehensive product portfolio. As an Italian company, we believe and invest in our country's prowess, on the basis of the obsessive commitment to quality that forms an integral part of Italian manufacturing and guarantees the best possible care for everyone's most valuable asset: their health!

We work behind the scenes to enable doctors and technicians to work faster, more effectively and with zero scope for error, so that their patients benefit from quick, precise, error-free diagnoses.

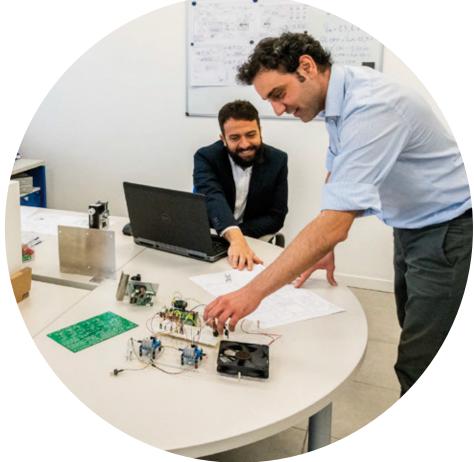
How do we do it?

By setting ourselves increasingly ambitious goals in R&D, constantly increasing the speed of our production and delivery processes, and extending our product range in line with the needs of the market, the latest medical discoveries and the most up-to-date guidelines.

Our aim is to be a company that helps everyone achieve a long, healthy and rewarding life!

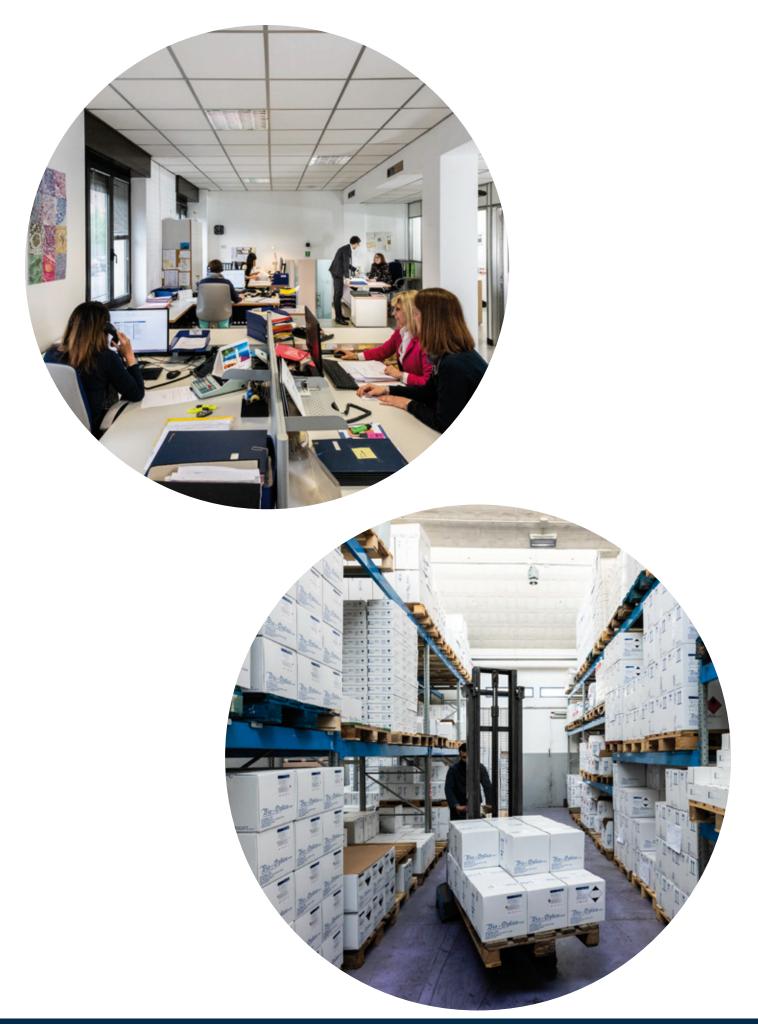


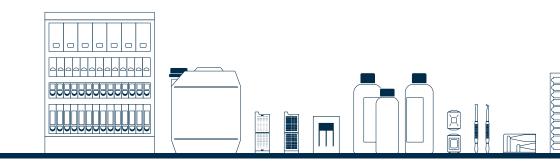


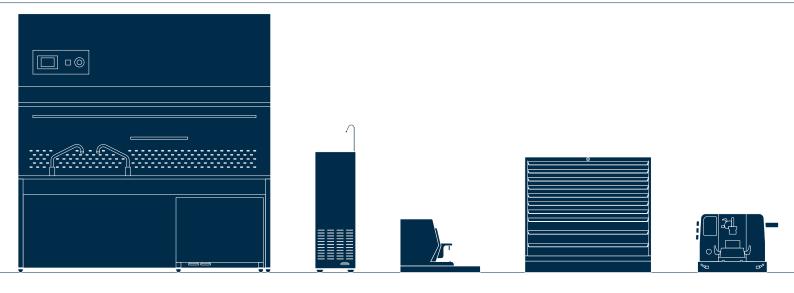








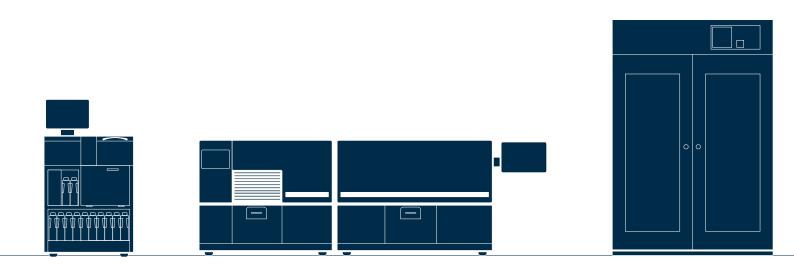






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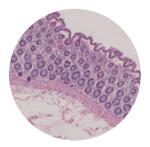




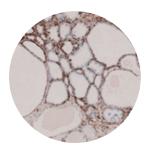
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Safe storage and transport of samples



Sigmoid colon (H&E)



Prostate (IHC, vimentin)



Sigmoid colon (IHC, CK8-18)



HistoCold

Cold storage system

HistoCold is a storage system for the safe transport of histological samples, in accordance with Commission Regulation (EU) No. 605/2014.

HistoCold solution is non-toxic and ready to use. The sample is immersed and preserved until it reaches the pathology lab, where it can be fixed in formalin and processed according to standard protocols.

HistoCold solution combines the action of its patented formulation with the action of cold, so as to inhibit microbial activity and preserve pH and physiological osmolarity in order to avoid shock to the tissues and slow the action of proteolytic enzymes.

HistoCold solution is cooled at the time of use by means of a dedicated dispenser equipped with a pedal for easier delivery of the solution.

Benefits of HistoCold solution:

- Tissue-compatible: physiological pH and osmotic pressure
- Non-toxic
- Ready to use
- Stable
- Storage at room temperature
- Preserves tissue for up to 72 hours at 4°C
- No compression of the histological sample

PRODUCT	PACK	CODE
HistoCold – solution	10	05-100100
Dispenser	1 pc.	05-100200
Refrigerator for transport	1 pc.	05-100300
Trolley for transport	1 pc.	05-100400
Uninterruptible power supply for refrigerator	1 pc.	65-SL2000
Temperature data logger	1 pc.	05-100500
Multi-purpose container, 125 ml	250 pcs.	05-100401
Multi-purpose container, 250 ml	200 pcs.	05-100402
Multi-purpose container, 500 ml	100 pcs.	05-100403
Multi-purpose container, 1000 ml	100 pcs.	05-100404
Multi-purpose container, 3000 ml	50 pcs.	05-100405
Multi-purpose container, 5000 ml	20 pcs.	05-100406



Safe storage and transport of samples



Klessidra 2.0

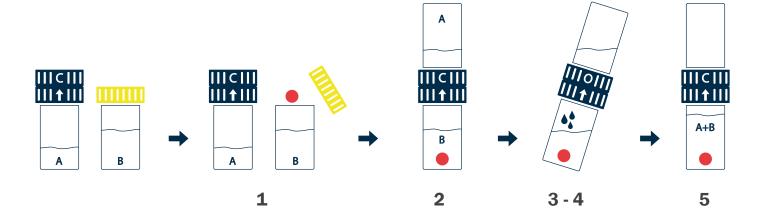
Klessidra has evolved into Klessidra 2.0: supplied in pre-filled containers, the buffer solution helps operators remove biopsies from needles.

The container with two blue caps contains concentrated formalin. The buffered neutral 10% formalin reconstitutes after blending with the buffer solution.

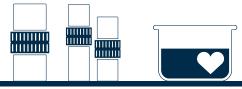
	PRODUCT	PACK	CODE
•	Klessidra 2.0 10 ml of 12% formaldehyde and 20 ml of buffer	27 pcs.	05-01V15PK
	phosphate		
•	Rack	1 pc.	05-900900
	Test tube rack for 16 Klessidras, to facilitate		
	transport within the hospital		

Instruction for use

- 1) Open the container with the yellow cap containing the buffer (solution B) and release the biopsy into it
- 2) Screw the container pre-filled with formalin (solution A) onto the container in which you placed the biopsy
- 3) Turn the caps to the open position (by lining up the arrow with the letter 0)
- 4) Tilt the device and let the formalin flow into the container below
- 5) Turn the caps to the closed position



Solution A : 30% buffered neutral formalin Solution B: phosphate buffer Solution A+B: 10% buffered neutral formalin



Safe storage and transport of samples





Klessidra

Klessidra is a patented, closed-circuit safety device, which prevents contact between formaldehyde and the user, in accordance with Commission Regulation (EU) No. 605/2014. It is intended for the fixation and transport of small histological samples.

PRODUCT	PACK	CODE
Klessidra 10 ml	27 pcs.	05-01V15PK
10 ml of 10% buffered neutral formalin in a 35 ml		
container		
Includes Endokit for the orientation of small biopsies	6	
Klessidra 20 ml	27 pcs.	05-01V30PK
20 ml of 10% buffered neutral formalin in a 55 ml		
container		
Klessidra 30 ml	24 pcs.	05-01V60PK
30 ml of 10% buffered neutral formalin in a 35 ml		
container		
Includes Bio Cassette and biopsy pads		

Klessidra BN

A closed-circuit safety device for preventing contact between fixative and user, pre-filled with 30 ml of Bouin in a 55 ml container.

•	Klessidra BN	24 pcs.	05-01V60PKB
	PRODUCT	PACK	CODE





Safe storage and transport of samples

Klessidra 3.0

Klessidra 3.0 is the largest size in the Klessidra range. The 90 ml size can hold up to 12 Bio Cassettes. The maxi 150 ml version can hold two SuperMegaCassettes for mucosectomies or 20 Bio Cassettes.

	PRODUCT	PACK	CODE	
•	Klessidra 3.0 - 90 ml 90 ml of 10% buffered neutral formalin	8 pcs.	05-01V125PK	
•	Klessidra 3.0 - 160 ml	8 pcs.	05-01V250PK	

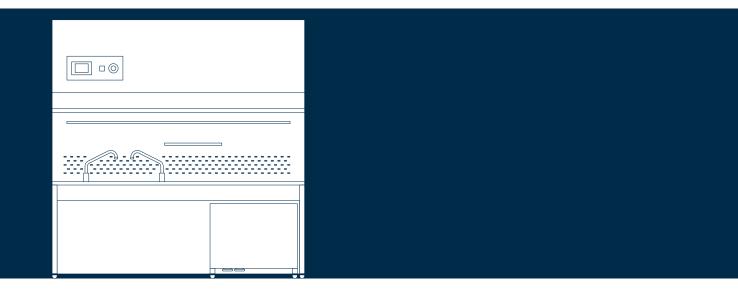




PATENTED

Via-Optica Vio-0

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Trimming Tech histology hood

Trimming Tech hoods are designed to the highest quality standards so as to meet all operator requirements in relation to the prevention of chemical risk during grossing of histological samples. Made of stainless steel, they are equipped with a multiple extractor system that extracts fumes from the work surface, from the front and from above. The control panel with soft-touch keypad provides an intuitive interface for setting the desired operating parameters.

Construction features

- Stainless steel structure
- Power-operated vertically sliding front safety glass sash for fume containment
- Filter basket and lid for the formalin container

Work surface features

- Non-drip lip
- Sink with pedal-operated mixer tap and pull-out shower head for washing the work surface
- Formalin disposal tank
- Waste fluid collection tanks with extractor and independent washing system

Extractor system

- Pre-installed alumina filters for formalin
- Cartridge-type synthetic fiber pre-filters pre-installed





Grossing

	PRODUCT	WORK SURFACE	DIMENSIONS	CODE
•	Trimming Tech 90	with sink on left with sink on right	900x750x2230 mm	50-090-001 50-090-002
٠	Trimming Tech 130	with sink on left	1300x750x2230 mm	50-130-001
		with sink on right		50-130-002
٠	Trimming Tech 150	with sink on left	1500x750x2230 mm	50-150-001
		with sink on right		50-150-002
٠	Trimming Tech 180	with sink on left	1800x750x2230 mm	50-180-001
		with sink on right		50-180-002
		with central sink		50-180-003



Accessories for grossing hoods

PRODUCT	CODE
Garbage disposal unit with pedal control (*)	
Millimeter ruler	50-500-054
Stainless steel filter for formalin sink	50-500-059
Magnetic knife-holder (*)	50-500-060
UV lamp with protective roller blind (*)	50-500-057
HEPA Filter (High Efficiency Particulate Air)	50-F005
Alumina filter for formalin	50-F017
Synthetic fiber pre-filter	50-F007
Stainless steel filter for water sink	50-500-062

 $(\ensuremath{^*})$ Accessories which can only be installed at the time of production









Receiving Tech

Receiving Tech is a downdraft table designed for the reception of histological samples preserved in formalin. It is the ideal solution for ensuring operator safety during reception, while keeping the samples fully accessible.

The control panel with soft-touch keypad provides an intuitive interface for setting the desired operating parameters.

Construction features

- Stainless steel structure
- Work surface designed for maximum usable area

Extractor system

- Downdraft and frontal fume extractor system
- Pre-installed filter

PRODUCT	DIMENSIONS	CODE
Receiving Tech 130 Receiving Tech 150 Receiving Tech 180 Alumina filter for formaldehyde Synthetic fiber pre-filter	1300x750x1200 mm 1500x750x1200 mm 1800x750x1200 mm	50-130-301 50-150-301 50-180-301 50-F003 50-F007



Grossing

Swordfish 5000 autopsy saw with extractor system

Autopsy saw with waste extraction and collection system. The tool is equipped with a starter kit consisting of:

- 1 circular blade, diameter 64 mm
- 1 circular plaster blade, diameter 64 mm
- 1 circular blade, diameter 76 mm
- 1 x 51 mm segmented blade
- 1 paper filter
- 1 fabric filter
- 1 HEPA micro-filter

	PRODUCT	CODE
	Autopsy saw with extractor system	32-MSYS5000
	PRODUCT AND DESCRIPTION	CODE
	64 mm eizeulez autonou blada, nach of 10 nac	32-MBC64M
•	64 mm circular autopsy blade, pack of 10 pcs.	32-IVIDC04IVI
	This the most popular blade for the majority of autopsy operations.	
	Wide-set teeth minimize sticking.	
	Four fastening points for enhanced safety. These can be rotated into a	
	new position, when one area of the saw becomes blunt.	
٠	64 mm circular plaster blade, pack of 10 pcs.	32-MBC64P
	Fine-set teeth increase accuracy and reduce the risk of slippage. Can	
	be rotated for longer service life.	
٠	76 mm circular autopsy blade, pack of 10 pcs.	32-MBC76
	A wider blade for deeper cuts. Wide-set teeth minimize sticking. Can be	
	rotated for longer service life.	
٠	51 mm segmented blade, pack of 10 pcs.	32- MBS51
	A segmented blade for more accurate work in specialist applications.	

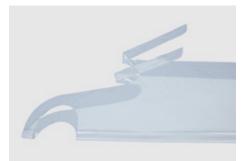




Autopsy instruments available to order

-	Autopsy needles	-	Curved microscopy scissors	-	Probes
-	Cartilage knives	-	Muscle scissors	-	Blood scoop
-	Brain knife	-	Anatomical forceps	-	Cranium chisel
-	Organ knife	-	Surgical forceps	-	Rib shears
-	Straight surgical scissors	-	Hemostatic forceps	-	Bone scissors
-	Curved surgical scissors	-	Mallets	-	Osteotomy forceps
-	Bowel scissors	-	Chisel	-	Measuring instruments
-	Dissecting scissors	-	Pointed scalpels	-	Bow saw
-	Incision scissors	-	Stille osteotomes	-	Amputation saw
-	Straight microscopy scissors	-	Gouges		











Protective equipment for laboratory work

Single-use aprons

Made of polythene, ideal for laboratories and dissecting rooms.

PRODUCT	DIMENSIONS	PACK	CODE
Transparent	145x110 cm	25 pcs.	08-20450
Transparent	170x110 cm	25 pcs.	08-20700
White with dispenser	140x75 cm	50 pcs.	08-22140
White with dispenser	170x75 cm	50 pcs.	08-22170

Vantage cut-resistant gloves

Gloves for professional use. These gloves provide excellent cut-resistance combined with light weight and maximum dexterity, level III protection.

SIZE	PACK	CODE
Small	1 pair	08-70-750/S
Medium	1 pair	08-70-750/M
Large	1 pair	08-70-750/L
Extra large	1 pair	08-70-750/XL

Metal mesh gloves

For use during autopsies and grossing of anatomical specimens.

SIZE	PACK	CODE	
Small	1 pair	08-530	
Medium	1 pair	08-533	
Large	1 pair	08-535	

Transport bags

Polypropylene bags for transporting specimens, complete with grip seal closure and document folder.

DIMENSIONS	PACK	CODE
16 x 25 cm	500 pcs.	44-9590





Bio-Pads

Pads made of special fabric for absorbing formaldehyde. Ideal for containing spillages, leaks and drips of formaldehyde when grossing anatomical specimens, thus reducing the risk of operator exposure to formalin.

DIMENSIONS	PACK	CODE
203 x 254 mm	25 pcs.	08-FNP0810
406 x 508 mm	25 pcs.	08-FNP1620



Accessories

Endokit

Endokit is a complete patented system for the correct orientation of endoscopic biopsies, consisting of:

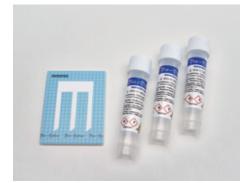
- Pre-cut strips of nitrocellulose with one slanted end
- Test tubes pre-filled with buffered neutral 10% formalin for immediate fixation of biopsies

PACK	CODE
40 Endokit strips and 80 pre-filled test tubes	08-8700N
40 Endokit	08-8710N

Mucosectomy Kit

An innovative kit for the correct positioning of mucosectomies, so that they can provide enough histopathological tissue for correct diagnosis.

PACK	DIMENSIONS	CODE
5 mucosectomy kits	70X50 mm	08-8800

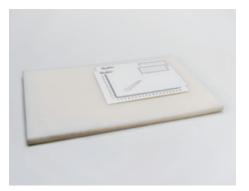




Grossing board

Grossing boards for the dissection of anatomical specimens. The single-use grossing boards are equipped with a millimeter scale.

DIMENSIONS	MATERIAL	PACK	CODE
30 x 50 cm	Polythene	1 pc.	07-7807
15 x 21 cm	Cardboard	20 pcs.	08-8000 (single-use)
30 x 21 cm	Cardboard	20 pcs.	08-8010 (single-use)
30 x 42 cm	Cardboard	20 pcs.	08-8020 (single-use)
35 x 45 cm	Polythene	1 pc.	19-AC515/PS





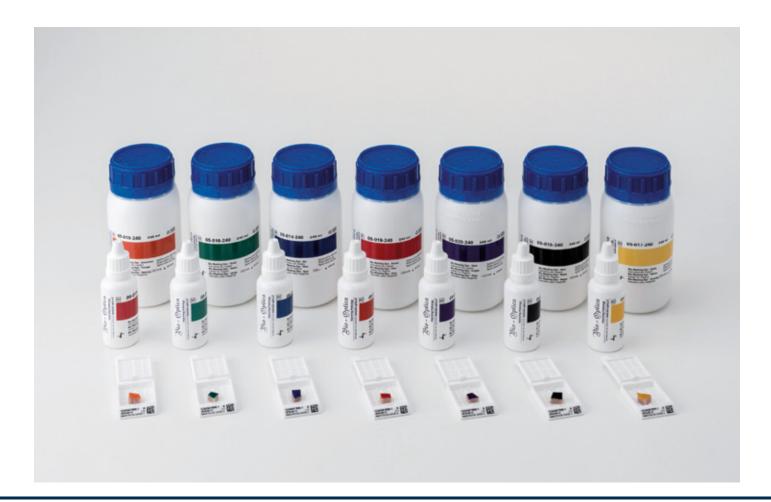


Bio Marking Dyes

Bio-Optica marking dyes are special, non-toxic inks, made with natural polymers, used to mark surgical margins.

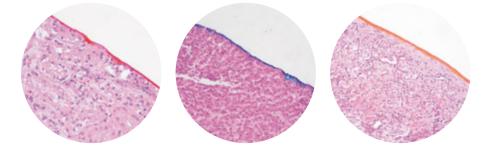
The advantages of using Bio Marking Dyes are as follows:

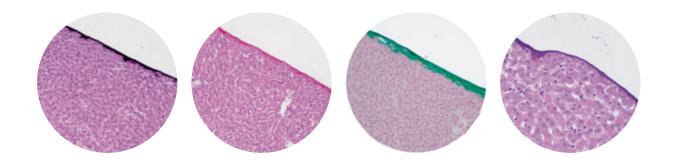
- They are non-toxic and made with natural polymers
- They dry in 2-3 minutes
- They do not require any additional work phases in other solutions to fix the color
- They do not spread into the tissue
- They can be applied to fresh or fixed samples
- They do not release color into solutions during fixing and processing











30 ml bottles with dispenser

COLOR	PACK	CODE
Kit comprising 7 colors	1 kit	05-000-030
Blue	8 pcs.	05-014-030
Black	8 pcs.	05-015-030
Green	8 pcs.	05-016-030
Yellow	8 pcs.	05-017-030
Orange	8 pcs.	05-018-030
Red	8 pcs.	05-019-030
Violet	8 pcs.	05-020-030

240 ml bottles

COLOR	PACK	CODE
Blue	1 pc.	05-014-240
Black	1 pc.	05-015-240
Green	1 pc.	05-016-240
Yellow	1 pc.	05-017-240
Orange	1 pc.	05-018-240
Red	1 pc.	05-019-240
Violet	1 pc.	05-020-240









Multi-purpose containers

Impact-resistant containers for the storage of small histological samples.

CAPACITY	PACK	CAP	CODE
10 ml	1800 pcs.	Press	07-7760
20 ml	1000 pcs.	Press	07-7770
30 ml	750 pcs.	Press	07-7780
50 ml	500 pcs.	Press	07-7790
40 ml	500 pcs.	Screw	07-M40
60 ml	500 pcs.	Screw	07-M60

Multi-purpose containers with hermetically sealed press cap for the storage of histological samples, serigraphed with hazard symbols and risk phrases for formalin.

CAPACITY	PACK	CAP	CODE
125 ml	250 pcs.	Press	07-7700
250 ml	200 pcs.	Press	07-7750
500 ml	100 pcs.	Press	07-7710
1000 ml	100 pcs.	Press	07-7720
3000 ml	50 pcs.	Press	07-7730
5000 ml	20 pcs.	Press	07-7740

Buffered neutral 10% formalin in pre-filled containers

CAPACITY	PACK	CAP	CODE
10 ml	80x5 ml	Screw	05-01P05
35 ml	54x9 ml	Screw	05-01V15P
55 ml	54x18 ml	Screw	05-01V30P
55 ml	54x28 ml	Screw	05-01V60P
125 ml	24x75 ml	Screw	05-01V125P
250 ml	12x130 ml	Press	05-01V250P
500 ml	6x300 ml	Press	05-01V500P
1000 ml	6x600 ml	Press	05-01V1000P
3000 ml	4x1500 ml	Press	05-01V3000P
5000 ml	4x3000 ml	Press	05-01V5000P

Ready-to-use formalin

	PRODUCT	PACK	CODE
•	10% formalin with acetate buffer	4x 2,5 I	05-01011Q
		1x20	05-K01011
•	Buffered neutral 10% formalin	4x2,5 l	05-01005Q
		1x5 I	05-01004F
		1x10	05-K01009
		1x20	05-K01004
	With tap	1x10	05-K01009R
		1x20	05-K01004R
٠	10% formalin, saline	4x2,5 l	05-01020Q



Grossing

Concentrated formalin

	PRODUCT	PACK	CODE
•	38-40% formaldehyde	4x2,5 I	05-01007Q
		1x20 I	05-K01007
٠	Concentrated buffered neutral formalin	4x2,5 l	05-01006Q
			05-K01004/CO

Other fixatives

PRODUCT AND DESCRIPTION	PACK	CODE
B 5	1x500 ml	05-M01023
For hematopoietic tissue		
Bouin	1x500 ml	05-M01008
For bone marrow biopsies	4x2,5 I	05-01008Q
Bouin Hollande sublimate	1x500 ml	05-M01026
For fixation of the pituitary gland and endocrine		
pancreas		
Carnoy	1x500 ml	05-M01013
Product of choice for glycogen	1x2,5 I	05-01013E
Carson	1x500 ml	05-M01019
For electron microscopy		
Dubosq Brezil	1x500 ml	05-M01024
For fine-needle aspiration		
FAA fixative	1x2,5 I	05-01001E
Mixture for fatty samples		
Hollande	54x18 ml	05-01030V30P
Excellent for trichrome staining	1x2,5 I	05-01030E
Immunofix	1x10	05-K01015
Comprising 4% paraformaldehyde in phosphate		
buffer, ideal for immunohistochemistry		



Decalcifying agents

Decalcifying and/or fixative solutions for bone marrow biopsies and calcified tissues.

	PRODUCT AND DESCRIPTION	PACK	CODE
•	Mielodec	10x100 ml	04-230827
	Two-component fixative decalcifying agent for		
	bone marrow biopsies		
٠	Gooding- Stewart	1x2,5 l	05-03003E
	For calcified bone		
٠	Osteodec	1x500 ml	05-M03005
	Decalcifying agent for bone biopsies	4x2,5 l	05-03005Q
•	Biodec R	1x500 ml	05-M03009
	Rapid decalcifying agent for mineralized tissue	4x2,5 I	05-03009Q
٠	Electrolytic decalcifying agent	1x500 ml	05-M03004
	Decalcifying mixture comprising formic acid and	4x2,5 I	05-03004Q
	hydrochloric acid		





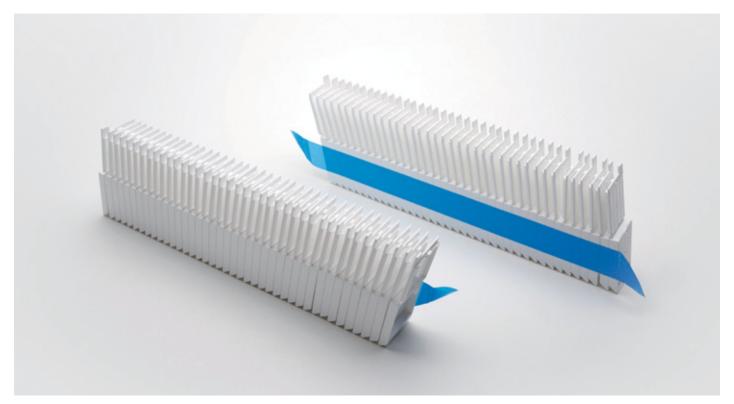


Grossing

Stacked Bio Cassettes with lid with tape for printers

Bio Cassettes in polyacetal resin compatible with the main printing systems available on the market.

COLOR	PACK	CODE
White	40 magazines of 40 pcs.	07-9700
Orange	40 magazines of 40 pcs.	07-9710
Blue	40 magazines of 40 pcs.	07-9720
Yellow	40 magazines of 40 pcs.	07-9730
Lilac	40 magazines of 40 pcs.	07-9740
Pink	40 magazines of 40 pcs.	07-9750
Green	40 magazines of 40 pcs.	07-9760



COMPATIBILITY WITH COMMERCIALLY AVAILABLE WRITING SYSTEMS

CODE	PRIMERA	LEICA IPC	SAKURA SMART WRITE	SAKURA AUTO WRITE	THERMO PRINT MATE	HANDWRITING
07-9700	V	V	V	V	х	Х
07-9710	V	V	V	V	Х	Х
07-9720	V	V	V	V	Х	Х
07-9730	V	V	V	V	Х	Х
07-9740	V	V	V	V	Х	Х
07-9750	V	V	V	V	Х	Х
07-9760	V	V	V	V	Х	Х











Bio Cassettes

• Bio Cassettes of acetal resin for embedding standard samples with lid

COLOR	PACK	CODE
White	3x500 pcs.	07-7100
Orange	3x500 pcs.	07-7110
Blue	3x500 pcs.	07-7120
Yellow	3x500 pcs.	07-7130
Lilac	3x500 pcs.	07-7140
Pink	3x500 pcs.	07-7150
Green	3x500 pcs.	07-7160
Gray	3x500 pcs.	07-7180

• Bio Cassettes II of acetal resin for embedding standard samples with separate lid

Green	1x2000 pcs. + 2x1000 pcs.	07-8160	
Pink	1x2000 pcs. + 2x1000 pcs.	07-8150	
Lilac	1x2000 pcs. + 2x1000 pcs.	07-8140	
Yellow	1x2000 pcs. + 2x1000 pcs.	07-8130	
Blue	1x2000 pcs. + 2x1000 pcs.	07-8120	
Orange	1x2000 pcs. + 2x1000 pcs.	07-8110	
White	1x2000 pcs. + 2x1000 pcs.	07-8100	
COLOR	PACK LIDS + CASSETTES	CODE	

• **Biopsy Cassettes** acetal resin cassettes for embedding biopsies and small samples with lid

COLOR	PACK	CODE
White	3x500 pcs.	07-7200
Orange	3x500 pcs.	07-7210
Blue	3x500 pcs.	07-7220
Yellow	3x500 pcs.	07-7230
Pink	3x500 pcs.	07-7250
Green	3x500 pcs.	07-7260
Gray	3x500 pcs.	07-7280

• **Biopsy Cassettes II** acetal resin cassettes for embedding biopsies and small samples with separate lid

COLOR	PACK LIDS + CASSETTES	CODE
White	1x2000 pcs. + 2x1000 pcs.	07-8200
Orange	1x2000 pcs. + 2x1000 pcs.	07-8210
Blue	1x2000 pcs. + 2x1000 pcs.	07-8220
Yellow	1x2000 pcs. + 2x1000 pcs.	07-8230
Pink	1x2000 pcs. + 2x1000 pcs.	07-8250
Green	1x2000 pcs. + 2x1000 pcs.	07-8260
Gray	1x2000 pcs. + 2x1000 pcs.	07-8280



Grossing

Mega Cassettes

Double height cassettes with lid.

White	750 pcs.	07-7300
COLOR	FAUN	CODE
COLOR	PACK	CODE

Super Mega Cassettes

Cassettes for large samples with separate lid, designed with larger mesh to increase the contact surface of the paraffin and prevent the sample from detaching during microtome cutting.

COLOR	PACK	DIMENSIONS	CODE
White	200 pcs.	70x50x15 mm	07-7000

Embedding Cassettes

Acetal resin cassettes with round holes, for use with metal lids.

DESCRIPTION	PACK	CODE
White cassettes	3x1000 pcs.	07-7350
Metal lid	10 pcs.	07-086-74195

Biopsy pads

Foam pads made of special material that is permeable to solvents and paraffins. They facilitate the processing of very small samples without any risk of loss of material.

Blue Black	15000 pcs. 5000 pcs.	07-7290/15 07-7291
Blue	5000 pcs.	07-7290/5
Blue	500 pcs.	07-7290
COLOR	PACK	CODE

Biopsy bags

Fine-mesh nylon bags, resistant to paraffin and solvents. Ideal for processing small histological samples.

DIMENSIONS	PACK	CODE
30x45 mm	1000 pcs.	07-00005
45x60 mm	1000 pcs.	07-00003
75x73 mm	1000 pcs.	07-00004



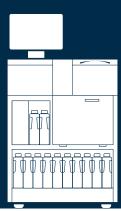












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Processing

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Bio - Optica

VTP 300 and FTP 300 tissue processor

The VTP300 and FTP300 tissue processors are floor-standing automatic vacuum systems designed for routine processing of histological samples. They are compact, user-friendly units that require only minimal maintenance thanks to the handy form of the pre-filled tanks.

All the reagents and consumables, including paraffin, come in compact, easy-to-handle tanks, thus reducing the manual filling phases. The new traceability system maximizes safety by eliminating the possibility of manual error and allowing easy identification of the key processing parameters.

The FTP300 processor differs from the VTP300 in that it is also designed for fast processing of samples. In fact the FTP300 is capable of processing of small biopsies in less than an hour.





• Characteristics

Operating capacity:	300 cassettes per cycle
Weight:	120 kg empty
Dimensions:	720 x 600 x 1300 mm (l x w x h)

Pre-filled tanks

65-30009S 65-30011 CODE FTP300
65-30011
65-30009S
65-30008S
65-30013S
65-30007S
65-30006S
65-30016S
65-30002S
65-30001S
CODE



Processing



Characteristics

Dimensions:	690 x 700 x 1,510 mm (l x w x h)
Weight:	225 kg
Operating capacity:	360/450 cassettes per cycle

Dedicated reagents

)	Fast automatic tissue processor FTP360 Automatic tissue processor VTP360		FTP360 VTP360
	PRODUCT		CODE
	Tank of Bio Plast Paraffin	6x2 kg	08-7910
	Tank with charcoal filter	6x2 kg	65-30011
	Tank of X-Free	4,1	65-30016F
	Tank of Absolute Dehyol	4,1	65-30009F
	Tank of Dehyol 95	4,1	65-30008F
	Tank of Dehyol 70	4,1	65-30013F
	Tank of Distilled Water	4,1	65-30007F
	Tank of Unyhol	4,1	65-30002F
	Tank of Formalin	4,1	65-30001F
	PRODUCT	PACK	CODE

VTP 360 and FTP 360 tissue processor

The VTP360 and FTP360 tissue processors are floor-standing automatic vacuum systems designed for routine processing of histological samples. They are compact, user-friendly units that require only minimal maintenance thanks to the handy form of the pre-filled tanks.

The new traceability system maximizes safety by eliminating the possibility of manual error and allowing easy identification of the key processing parameters.

The FTP360 processor differs from the VTP360 in that it is also designed for fast processing of samples. In fact the FTP360 is capable of processing of small biopsies in less than an hour.





Dehyol 70

A 70 $^\circ$ alcohol mixture that makes an ideal substitute for 70 $^\circ$ ethanol in all histology/ cytology procedures.

PACK	CODE
1x5	06-10075F
4x2,5 l	06-10075Q

Dehyol 95

A 95 $^\circ$ alcohol mixture that makes an ideal substitute for 95 $^\circ$ ethanol in all histology/ cytology procedures.

PACK	CODE
1x5 4x2,5	06-10070F 06-10070Q
4x2,5	06-10

Absolute Dehyol

An absolute alcohol mix that makes an ideal substitute for absolute ethanol in all histology/cytology procedures.

PACK	CODE
1x5 I	06-10077F
4x2,5 l	06-10077Q

AlcoolPath 95

A 95° alcohol mix comprising ethyl alcohol.

PACK	CODE
1x5	06-10031F
4x2,5 l	06-10031Q

Absolute AlcoolPath

An absolute alcohol mix comprising ethyl alcohol.

РАСК	CODE
1x5	06-10030F
4x2,5	06-10030Q





Processing

Unyhol

Unyhol is an alcohol mix formulated to prevent excessive dehydration of samples and to substitute the full range of alcohol concentrations.

PACK	CODE
1x5	06-10071F
4x2,5 l	06-10071Q

Bio Clear

Clearing reagent of natural origin, formulated to replace xylene in the processing, dewaxing and dehydration of slides.

PACK	CODE
4x2,5 l	06-1782Q

Xylene for histological applications

Xylene-based solvent for histology and cytology procedures.

PACK	CODE
4x2,5	06-1304Q
1x5	06-1304F

X-Free

A xylene substitute solvent for use in histology and cytology procedures.

PACK	CODE
4x2.5	06-1305Q
5	06-1305F

Bio-Plast Paraffins

Exclusive blends of high-quality paraffins and plastic polymers. Excellent penetration into all types of tissue and optimum elasticity during cutting, for serial sections including with fibrous tissues. DMSO-free.

DESCRIPTION	MELTING POINT	PACK	CODE
Standard, for routine procedures	56÷58 °C	6x2 kg	08-7910
Special, for processing	52÷54 °C	6x2 kg	08-7915
Plus, high-quality mix	56÷58 °C	6x2 kg	08-7920
Standard, for routine procedures	56÷58 °C	1x20 kg	08-7910/20
Plus, high-quality mix	56÷58 °C	12x1 kg	08-7920K





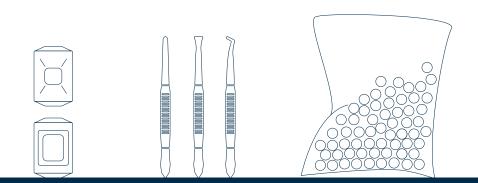


p. 45









Embedding







Embedding station

Modular specular system for embedding histological samples in paraffin. Comprises two separate units:

- Paraffin dispenser and thermal unit
- Cooling plate

The operating parameters, switch-on and switch-off of the two modules can be programmed separately.

The BEC150 paraffin dispenser is equipped with the following:

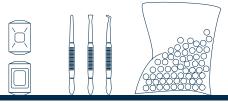
- Proximity sensor for dispensing paraffin, with flow control function
- 6 heated, pull-out holders for forceps
- 2 paraffin collection drawers with disposable containers
- Peltier spot capable of accommodating embedding molds for large samples
- Double thermal unit capable of accommodating the racks of any floor-standing processor
- Double jack for heated forceps or pestle
- Touch-screen monitor
- Fully lit work surface

Accurate thermostatic control of the paraffin tank and work plate, and separate heating of the dispensing nozzle keep the operating temperature constant at all times.

The BCP170 cooling plate can accommodate up to 70 standard embedding cassettes and can be positioned on the right or the left of the paraffin dispenser according to the needs of the operator.

The dispenser can be ordered with the optional BCP230 cooling plate.

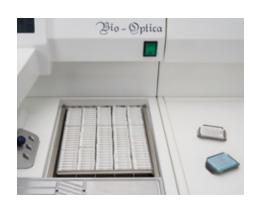




Embedding

• Characteristics

Overall dimensions:	971 x 600 x 385 mm (l x w x h)
Total weight:	60 kg
Heated plate:	anodized aluminum, surface 517 x 120 mm (w x d)
Paraffin tank:	aluminum, volume 4 liters approx
Chambers (two) for processor racks	aluminum, surface 225 x 160 mm (w x d)
with removable tank:	
Cooling surface:	painted aluminum, surface 375 x 355 mm (w x d)
Peltier plate dimensions:	70 x 80 mm
Adjustment range:	heated elements: +20°C to +70°C
	cooling plate: -8°C
PRODUCT	CODE
BEC150 paraffin dispenser	40-200-002
BCP170 cooling plate	40-300-202
BCP230 cooling plate	40-300-203







DP8R paraffin dispenser

Paraffin dispenser with 8-liter stainless steel tank with heated base, digital electronic thermostat and programmable switch-on and switch-off.

Characteristics

Dimensions:	450 x 370 x 540 mm (l x w x h)
Weight:	16 kg
Temperature:	adjustable from +20°C to +70°C
PRODUCT	CODE
DP8R paraffin dispenser	40-200-101

Heated forceps

Electrically heated, thermostat-controlled forceps for embedding samples. The system is designed to operate with two heated forceps simultaneously.

PRODUCT	CODE
Heated forceps (1 mm tip supplied as standard)	40-200-050
Replacement red forceps with 1 mm tip	40-200-053
Replacement yellow forceps with 2 mm tip	40-300-054
Replacement blue forceps with 4 mm tip	40-200-055

Forceps

Microscopy forceps made of polyester resin and fiberglass, resistant to acids, bases and heat up to 200 $^\circ\text{C}.$

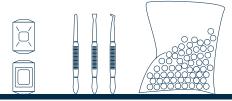
PRODUCT	PACK	CODE
Straight, pointed, 12 cm Straight, wide tip, 12 cm	1 pc. 1 pc.	08-K2A 08-K35A
Curved, pointed, 12 cm	1 pc.	08-K6
Straight, flat tip, 12 cm	1 pc.	08-KR

Microscopy forceps made of acid-resistant anti-magnetic steel.

PRODUCT	PACK	CODE	
Flat and curved tip, 11.5 cm Flat tip for slides, 10.5 cm	1 pc. 1 pc.	08-321 08-325	
Pointed and knurled, 14 cm	1 pc.	08-524	
Curved, with guide, 15.5 cm	1 pc.	08-615	







Embedding

Steel embedding molds

Stainless steel molds for embedding histological samples in paraffin.

• Bio Mold

MOLD DIMENSIONS	PACK	CODE
7 x 7 x 5 mm	12 pcs.	07-BM775
15 x 15 x 5 mm	12 pcs.	07-BM15155
24 x 24 x 5 mm	12 pcs.	07-BM24245
30 x 24 x 5 mm	12 pcs.	07-BM30245
37 x 24 x 5 mm	12 pcs.	07-BM37245

Mega Mold

	MOLD DIMENSIONS	PACK	CODE
	33 x 24 x 12 mm	6 pcs.	07-MBM6
•	Super Mega Mold		
	MOLD DIMENSIONS	PACK	CODE
	65 x 45 x 15 mm	10 pcs.	07-7010



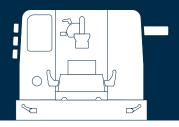
PVC dispomold

Single-use, PVC embedding molds.

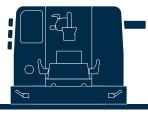
MOLD DIMENSIONS	PACK	CODE
7 x 7 x 5 mm	1500 pcs.	07-MP7070
15 x 15 x 5 mm	1500 pcs.	07-MP1515
24 x 24 x 5 mm	1500 pcs.	07-MP2424
30 x 24 x 5 mm	1500 pcs.	07-MP3024
37 x 24 x 5 mm	1500 pcs.	07-MP3724











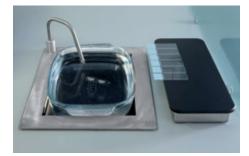
Bio - Optica

Microtome Bench

The Microtome Bench is the only cutting station complete with all the necessary instruments for microtome cutting: cooling plate, water bath and hot plate.

The centralized control system facilitates safe, practical management of the accessories. Their ergonomic layout maximizes ease of access for the operator.







• Characteristics

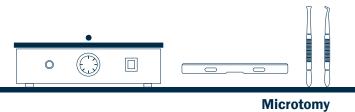
Dimensions (W x D x H):	1500 x 800 x 1775 mm	
Weight:	120 Kg	
Cooling plate		
Effective work area:	310 x 300 mm	
Operating capacity:	up to 170 cassettes, positioned ve	rtically
Minimum temperature:	-20°C	
Water bath		
Temperature setting range:	+20°C to +70°C	
Tank lighting:	Neon	
Hot plate		
Capacity:	up to 24 slides	
Temperature setting range:	+20°C to +70°C	
PRODUCT		CODE
Microtome Bench TMB		40-300-400

TSO table for second operator

Second cutting station equipped with water bath and hot plate. For use in conjunction with the microtome bench to create two complete stations.

• Characteristics

Dimensions (W x D x H):	1200 x 800 x 1775 mm	
Weight:	100 Kg	
PRODUCT		CODE
Table for second operator		40-300-401



BCP230 freezing plate

Cooling plate equipped with a work tray with 48 mm high edge, designed to provide a refrigerated chamber and not just a cold work surface. The chamber is equipped with a lid. The advantages of this solution are as follows:

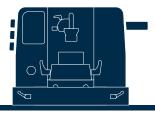
• High cooling power

- No condensation on the work surface or dripping on the bench
- Ability to cool a larger number of paraffin-embedded blocks (up to 300 approx) thanks to the special guides, which are available to order.

• Characteristics

Dimensions:	410 x 600 x 385 (L x W x	H)
Weight:	30 kg	
Capacity:	up to 300 cassettes appr	OX
Operating temperature:	to -20°C	
Cooling system:	CFC-free	
PRODUCT		CODE
BCP230 freezing plate		40-300-203
Metal guide for cassettes in vertical position		40-300-251









WB1770 water bath

The WB1770 water bath is equipped with a removable Pyrex basin which is easy to fill with water and empty, and safer and more practical to use.

The temperature is controlled by a probe in direct contact with the water, which ensures absolute precision. It is equipped with a heated upper work surface capable of accommodating up to 24 slides.

Characteristics

Dimensions:	350 x 365 x 155 mm (L x W x H)
Dimensions of slide-drying surface:	350 x 100 mm
Weight:	8 kg
Thermostat:	electronic thermostat with digital display
Bath temperature:	+20°C to +70°C
Temperature sensor:	NTC10K probe immersed directly in the water with
	movable arm
Basin lighting:	6 Watt neon lamp
Slide plate temperature:	+20°C to +50°C
PRODUCT	CODE
WB1770 water bath	40-300-000
Pyrex basin	40-300-050.0
Opaline lid	40-300-051.0

WB100 round water bath

The WB100 round water bath is small, simple and reliable.

It is equipped with an analog thermostat, heating indicator light and wide heated surface for 24 slides.

Dimensions mm 345x100 (ø x h) and dimensions of internal basin mm 225x50 (ø x h)

PRODUCT	BATH TEMPERATURE	CODE
WB100 water bath	+30 °C to +80 °C	40-300-002





PC800 hot plate

The PC800 hot plate can dry 30 slides simultaneously. It is equipped with an anodized aluminum work surface and digital electronic thermostat. The temperature is adjustable up to $90\,^\circ$ C.

PRODUCT	DIMENSIONS	CODE
PC800 plate	150 x 380 x 100 mm	40-300-301



The SVF100 forced ventilation histology oven is designed for quick drying of slides and quick heating of laboratory material. The digital display enables you to change the operating parameters and program switch-on and switch-off.

The chamber is equipped with two height-adjustable, perforated shelves and a collecting tray, all of which are removable.

Characteristics

Dimensions:	490 x 340 x 610 mm (L x W x H)	
Internal chamber dimensions:	410 x 300 x 430 mm (L x W x H)	
Weight:	32 kg	
Power:	2000 Watt	
Thermostat:	electronic microprocessor-based thermostat with bilin-	
	gual digital display	
Temperature:	+20°C to +70°C	
Programmability:	switch-on and switch-off, weekly	
PRODUCT	CODE	
SVF100 oven	40-300-101	

SVN1790 histology oven

The SVFN1790 natural ventilation histology oven is designed to dry slides and heat laboratory material quickly. Complete with two removable perforated shelves and a base tray.

Characteristics

Dimensions:	480 x 380 x 315 mm (L x W x H)
Chamber dimensions:	300 x 300 x 215 mm (L x W x H)
Temperature adjustment:	+20°C to +100°C with electronic digital thermostat

PRODUCT

CODE

SVN1790 oven

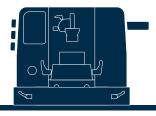
ODE

40-300-100











Steel blades

Fixed blade with C-profile. Made of durable, high-quality tempered steel for microtome/ cryostat cutting.

LENGTH	PACK	CODE
16 cm	1 pc.	08-16/C

Brushes

For microtomy and cryo-microtomy.

PRODUCT	PACK	CODE	
Small for collecting biopsies Small for collecting microtome sections Medium for collecting microtome sections Medium for microtome blade cleaning Large for microtome cleaning Large for cryostat cleaning	4 pcs. 4 pcs. 4 pcs. 2 pcs. 2 pcs. 2 pcs.	08-0822 08-0823 08-0824 08-0825 08-0826 08-0827	
Set of 5 cryostat brushes (Includes codes 0822-0823-0824-0825-0827) Set of 5 microtome brushes (Includes codes 0822-0823-0824-0825-0826)	1 pc.	08-0828 08-0829	



BioParaFree

De-waxing solution in spray form, completely odorless, for cleaning paraffin residues from microtomes, embedding stations and work benches. Supplied in a bottle with nebulizer.

1x100 ml	08-1750
4x100 ml	08-1750-X4

Microtomy

Killik

Non-toxic embedding medium for the preparation of histological tissue for cryostat cutting.

COLOR	PACK	CODE
Neutral	4x100 ml	05-9801
Blue	4x100 ml	05-9801B

Crio Clor 0,3

Cryostat disinfectant spray comprising chlorhexidine (0.3%), effective against bacteria, fungi and other viruses (hepatitis B, poliomyelitis, herpes simplex).

PACK	CODE
1x125 ml	05-9802

Cryo-Spray

PACK

Histological freeze spray: for fast freezing of tissues for cryostat cutting, and for cooling paraffin-embedded samples before microtome cutting. The new formulation is non-flammable and contains no fluorinated gases. It is therefore safe for the environment and for operators.

CODE

08-SPRAY

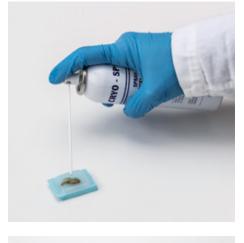
Microtome	oil

12x150 ml

Lubricant for microtomes / cryostats.

PRODUCT	РАСК	CODE
For microtome	1x100 ml	08-1721
For microtome	2x100 ml	08-1720
For cryostat	2x100 ml	57491



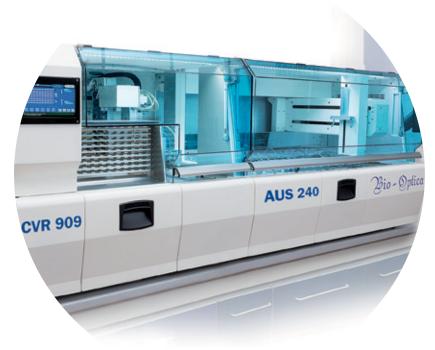




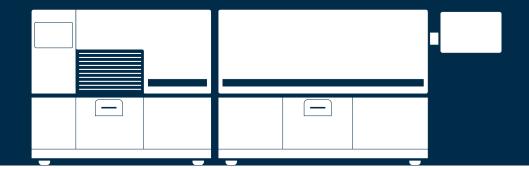


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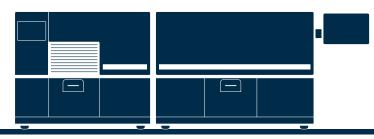














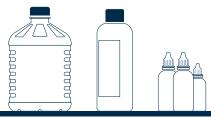
AUS240 stainer

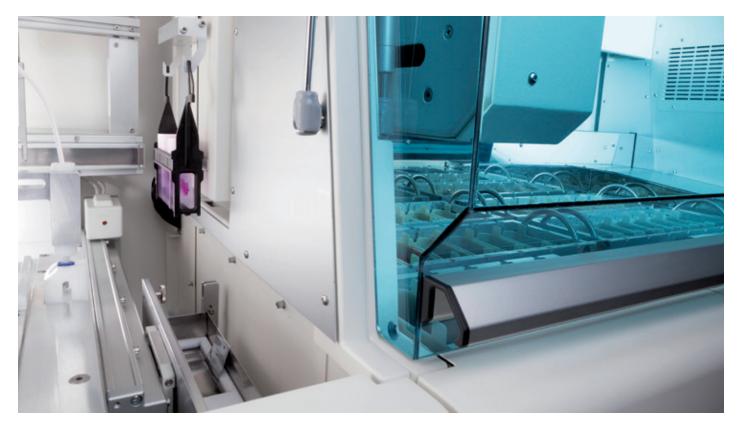
The AUS240 automated histology stainer with X-Y-axis transfer arm is fully programmable and suitable for all histo-cytological stains, both routine and special. It can perform multiple staining processes simultaneously. Their number is limited only by the number of dishes available (indicatively 10-12 processes).

Continuous loading of racks of 30 slides, with throughput dependent on the staining protocol. Equipped to impart a waving movement on the reagent dishes so as to reduce the quantity of precipitates in the dishes, thus keeping the reagent fresh at all times. The AUS240 can be integrated with the CVR 909 coverslipper.

• Characteristics

Overall dimensions:	1220 x 780 x 770 mm (L x W x H)	
Monitor:	+ 400 mm (I)	
Total weight:	155 kg	
Reagent work stations:	28	
Water work stations:	5	
Heated drying stations:	2 (60°C)	
Unloading stations:	3	
Loading stations:	2	
Dish capacity:	485 ml	
Slide rack:	capacity 30 slides	
Number of programs:	up to 18 programs of over 100 steps each	
Programmability:	each station can be set with an immersion time of 1" to	
	99'59" (with tolerance of 1")	
Interface:	large color touch-screen monitor for displaying the	
	progress of work protocols, the layout of the process	
	baths and all parameters relating to the staining cycles	
	in progress	
Safety:	Efficient, integrated fume filtration system	
PRODUCT	CODE	
AUS240 stainer	40-400-350	



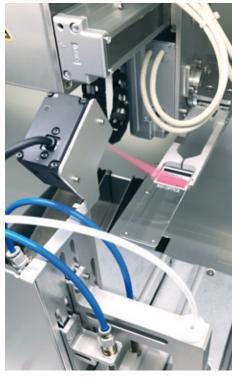


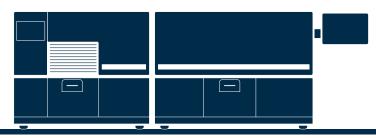
CVR909 automated coverslipper

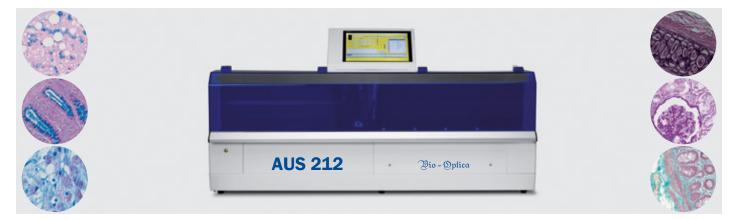
The CVR909 automated coverslipper is the only instrument on the market that arranges the coverslipped slides directly on handy stackable trays, which are resistant to chemical reagents. The instrument is easy to use and specifically developed to facilitate routine laboratory operations. Continuous cleaning of the dispenser needle ensures high-quality coverslipping. The barcode reader ensures that all laboratory processes are fully traceable. Integrated with the AUS240 stainer, the coverslipper fully automates the process of de-waxing, staining and mounting of samples. It is possible to use three different sizes of coverglass (24x40 - 24x50 - 24x60) and to set the mounting medium quantity and dispensing mode.

• Characteristics

Overall dimensions:	860 x 780 x 770 mm (L x W x H)	
Total weight:	80 kg	
Throughput:	180 slides/hour (directly on tray)	
Mounting medium:	500 ml container	
Output of mounted slides:	9 trays of 10 slides each (total: automated output of 90	
	slides without operator intervention)	
PRODUCT	CODE	
CVR909 automated coverslipper	40-500-000	







AUS212 stainer





The AUS212 automated linear stainer is compact and versatile. The heated dishes make it possible to perform sample preparation processes for in situ hybridization, histocytological staining and special staining protocols involving heating phases.

It is a closed system that ensures user safety by means of activated carbon filtration and lids designed to minimize emissions.

Equipped with a non-drip system that prevents cross-contamination of reagents and ensures high-quality staining.

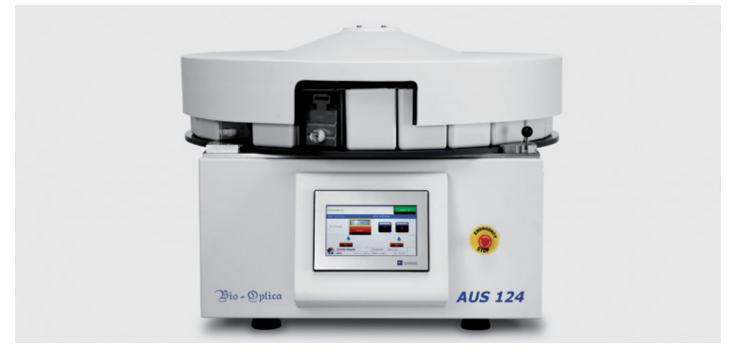
Can be used with special low-volume dishes to reduce reagent consumption.

• Characteristics

1010 x 350 x 380 mm (L x W x H)	
+ 150 mm (h)	
20 kg	
11	
1	
4 (up to 98 °C)	
250 ml	
80 ml	
capacity 23 slides	
capacity 8 slides	
up to 100 programs of over 100 steps each	
each station can be set with an immersion time of 1" to	
99'59" (with tolerance of 1")	
color touch-screen monitor for displaying the progress of	
work protocols, the layout of the process baths and all	
parameters relating to the staining cycles in progress	
efficient, integrated fume filtration system	

PRODUCT CODE AUS212 stainer 40-400-150



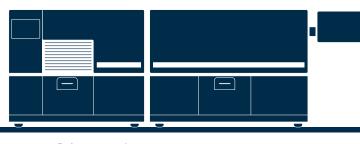


AUS124 sequential stainer

Reliable and easy to use, the AUS124 automated carousel-style slide stainer. stands out for its built-in fume extraction and filtration system. Equipped with an extremely intuitive programming system, it enables users to set operating parameters in such a way as to alternate multiple staining cycles.

Characteristics

Overall dimensions:	600 x 700 x 600 mm (L x W x H)	
Total weight:	75 kg	
Reagent work stations:	22	
Water work stations:	2	
Dish capacity:	750 ml	
Slide rack:	capacity 65 slides	
Number of programs:	up to 50 programs of 30 steps each	
Programmability:	each station can be set with an immersion time of 1" to	
	50'	
Interface:	large color touch-screen display shows the program-	
	ming parameters or parameters of the staining cycle in	
	progress	
Safety:	equipped with a large protective lid to limit fume emis-	
	sion	
Other features:	Back-up battery to power the instrument in the event of	
	a mains power outage	
PRODUCT	CODE	
AUS124 stainer	40-400-000	



Lab Tech chemical fume hoods

Lab Tech fume hoods are the ideal solution for mounting and staining operations. Designed for chemical and biological risk prevention. Front and top vapour extraction system.

Construction features

- Stainless steel structure
- Manual vertically sliding front safety glass sash for fume containment within the hood
- Shelf
- Control panel with soft-touch keypad for setting the desired operating parameters

Extraction/filtration system

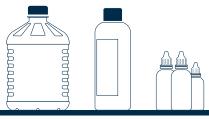
- Pre-fitted with synthetic fiber filter and pre-filter
- Predisposition for HEPA Filter



	PRODUCT	WORK SURFACE	DIMENSIONS	CODE
•	Lab Tech 90	with containment lip without containment lip with sink on left with sink on right	900x750x2230 mm	50-090-101 50-090-102 50-090-103 50-090-104
•	Lab Tech 130	with containment lip without containment lip with sink on left with sink on right	1300x750x2230 mm	50-130-101 50-130-102 50-130-103 50-130-104
•	Lab Tech 150	with containment lip without containment lip with sink on left with sink on right with double sink	1500x750x2230 mm	50-150-101 50-150-102 50-150-103 50-150-104 50-150-105
•	Lab Tech 180	with containment lip without containment lip with sink on left with sink on right with double sink	1800x750x2230 mm	50-180-101 50-180-102 50-180-103 50-180-104 50-180-105

Components supplied as standard and optional accessories

PRODUCT	CODE
Solvent filter	50-F018
Synthetic fiber pre-filter	50-F007
HEPA filter	50-F005
UV lamp with programmable automatic switch-off and roller blind	50-500-057
Replacement lamp for UV system	50-500-070





Bench Tech benchtop fume hood

Laboratory fume hood with extraction from top and front, to be used for manual staining, slide mounting or as an area for liquid transfer. It is suitable for any laboratory benches.

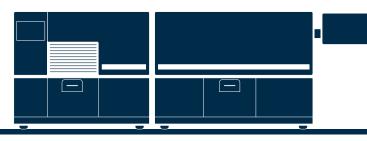
• Characteristics

Extractor system:	1 three-phase spark-proof adju	1 three-phase spark-proof adjustable electric extractor fan	
Lighting:	2 LED tubes, total 1500 lux	2 LED tubes, total 1500 lux	
Control panel:	touch-screen monitor for the o	touch-screen monitor for the control and display of all	
	functions	functions	
PRODUCT	DIMENSIONS	CODE	
Benchtop fume hood 90	900 x 750 x 1340 mm	50-090-201	
Benchtop fume hood 130	1300 x 750 x 1340 mm	50-130-201	
Benchtop fume hood 150	1500 x 750 x 1340 mm	50-150-201	

Filters

The filters are easy to change thanks to the handy Bio-Optica system with removable front panel. This system is used in all Bio-Optica fume hoods (Lab Tech, Trimming Tech, Bench Tech).

PRODUCT	CODE
HEPA filter Alcohol and xylene filter	50-F005 50-F004
Formalin filter	50-F003



Manual staining set

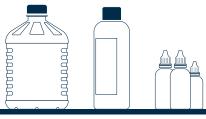
The simplest and most economical cyto-histological staining system, made of thermoplastic resin: the 10-10 manual staining set consists of twelve dishes with lid (capacity 300 ml) in a steel structure and a slide-rack for twenty-five slides. The hematology version consists of just three dishes with lid and one slide-rack. The dishes and rack are resistant to solvents and high temperatures (up to 170 °C) and can be used in microwave ovens.

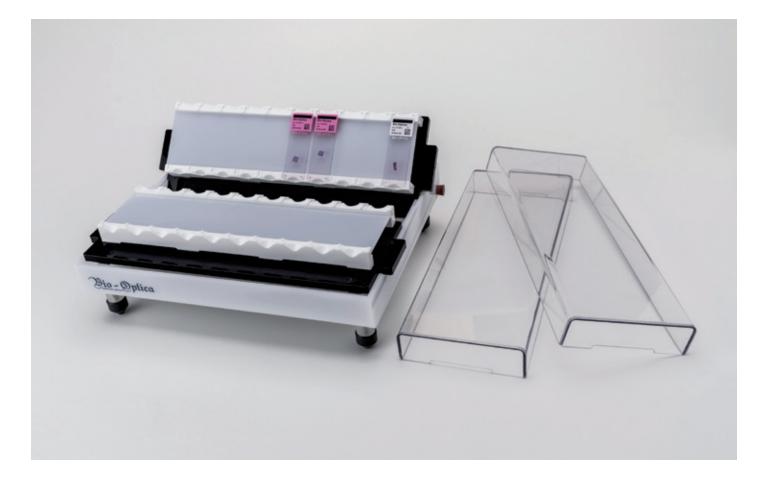
PRODUCT	No. OF DISHES	CODE
Hematology set	3	10-20
Staining set	12	10-10

PARTS AND ACCESSORIES

PRODUCT	PACK	CODE
Disk with lid attacks of	10	40.00
Dish with lid attached	12 pcs.	10-30
Dish with separate lid	12 pcs.	10-33
(for old model set)		
Rack for 25 slides with plastic handle	6 pcs.	10-42







Slide master for special and immunohistochemistry staining

Slide Master is the ideal manual stainer for special and immunohistochemistry staining of 20 slides.

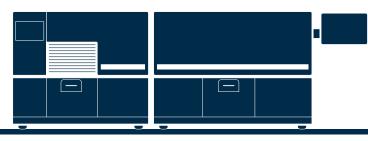
It is possible to create a humid chamber with the lid for the slides incubation in horizontal position.

The two tilting racks allow to wash slides in vertical position with special water storage system.

The adjustable feet and spirit level help keep the work surface totally horizontal.

 DIMENSIONS
 CODE

 32 x 26 x 11 (L x W x H) cm
 15-MEQ001

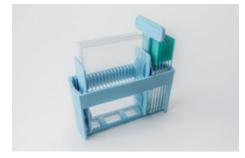












Plastic staining set

Heat-resistant dish up to 120 °C, equipped with 2 lids, one for total closure, one with a slot for inserting the rack during staining.

PRODUCT	PACK	CODE
TPX dish (dim. 81x101x70 mm)	4 pcs.	44-13091
Rack for 20 slides	2 pcs.	44-13092

Glass staining set

PRODUCT	CODE
Complete Set	10-2000
Dish with lid (dim. 81 x 101 x 70 mm) and rack	10-1820
Rack for 20 slides	10-1910
Replacement forceps for rack 10-1910	10-2010

Staining jars

PRODUCT	PACK	CODE
Glass Hellendahl jar	1 pc.	10-1410
TPX Hellendahl jar	4 pcs.	44-13101
Glass Coplin jar	1 pc.	10-1710
Glass Schifferdecker jar	1 pc.	10-1610
TPX Schifferdecker jar	1 pc.	44-13111

Timer

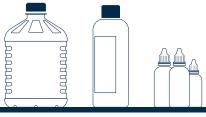
Solvent-resistant laboratory timer.

MODEL	PACK	CODE
Clip	1 pc.	44-10851
One hand	1 pc.	44-10852
Electronic	1 pc.	44-10853
Digital electronic	1 pc.	44-06057A000

Slide adapter for large samples

For use in conjunction with racks for automatic and manual stainers for staining slides with large samples together with standard slides.

PRODUCT	PACK	CODE
Slide adapter for large samples	2 pcs.	20-E103/SL/R30A



Bench surface protection paper

Bench surface protection paper for all laboratory requirements.

PRODUCT	DIMENSIONS	PACK	CODE	
Plastic-coated paper	48 x 60 cm	100 pcs.	08-CA2000	
Filter paper	50 x 50 cm	500 pcs.	08-656	



Deposits a waxy water-repellent film on slides to outline the staining area.

PRODUCT	TIP DIAMETER	PACK	CODE
Liquid Blocker	5 mm	1 pc.	11-100
Liquid Blocker Mini	2 mm	1 pc.	11-100M

Histology pen

Pen with special permanent ink that remains color-fast during processing to ensure reliable identification of preparations.

Writes on glass, metal, porcelain and plastic.

COLOR	PACK	CODE
Black	12 pcs.	11-50

Tube Checker

Special ink pens for permanent marking of embedding cassettes. The ink is resistant to alcohol and xylene. The pens are equipped with two tips, one fine and one broad.

COLOR	PACK	CODE
Black	1 pc.	11-400

Pen with diamond tip

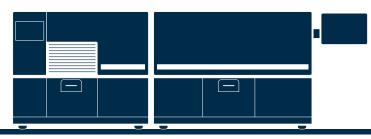


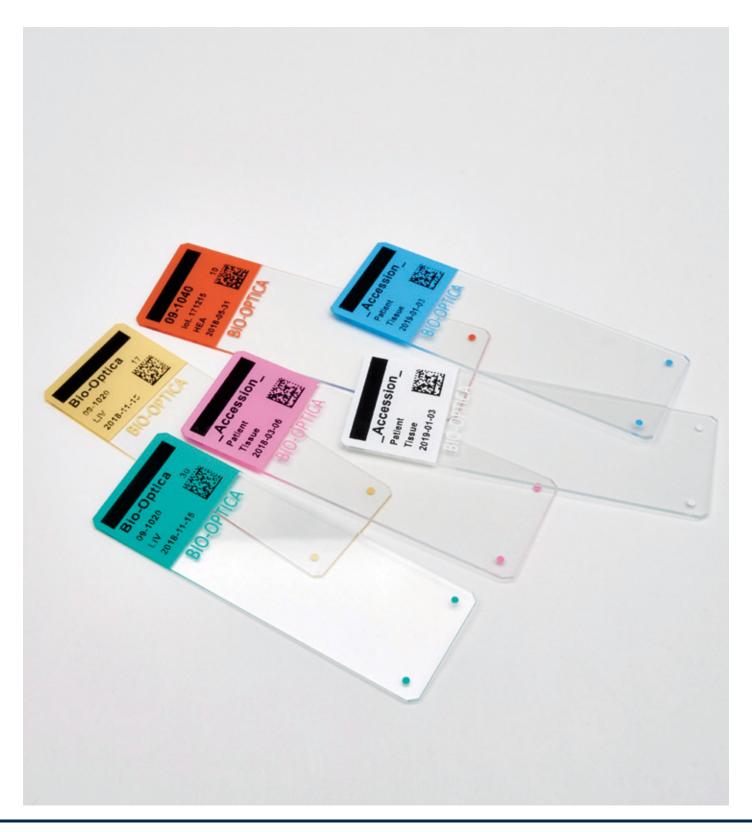














Microscope slides

Cleaned, degreased, high-quality, original Bio-Optica microscope slides; cellophanewrapped and free from dust, dirt and cracks.

Resistant to enzyme treatments and microwaves (750-800 Watts).

Dimensions: 25.5 x 75.5 mm.

SLIDES OF SPECIFIC DIMENSIONS ARE AVAILABLE TO ORDER.

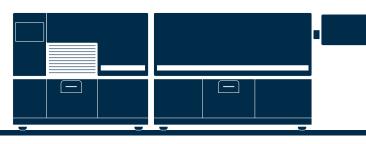
	EDGE	BAND	PACK	CODE
	Cut Ground 90°- beveled corners 45° Ground 90°- beveled corners 45°	Frosted Neutral Frosted Pink Blue Green White Yellow Orange	2500 pcs. 2500 pcs. 2500 pcs. 2500 pcs. 2500 pcs. 2500 pcs. 2500 pcs. 2500 pcs.	09-1000TB 09-1000M 09-1000 09-1000 09-1010 09-1020 09-1030 09-1040 09-1050
•	Ground 90°- beveled corners 45° positively charged	White	72 pcs.	09-3000





COMPATIBILITY WITH COMMERCIALLY AVAILABLE WRITING SYSTEMS

CODE	HANDWRITING	PRIMERA PRINTER	THERMO PRINTERS	LEICA PRINTER
09-1000MB	V	Х	X	Х
09-1000	V	V	V	X
09-1010	V	V	V	Х
09-1020	V	V	V	Х
09-1030	V	V	V	Х
09-1040	V	V	V	Х
09-1050	V	V	V	X
09-3000	V	V	V	Х





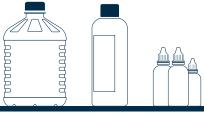
Manual staining kit

Bio-Optica staining kits have earned ever wider acclaim in Italy and throughout the World for a number of specific reasons, including:

- Quick and easy to use
- Reproducible results
- Predictable cost
- User safety
- Limited environmental impact

Nevertheless, Bio-Optica is committed to continuous improvement of its products and their protocols for use, thanks in part to feedback from our customers, which help us uphold the highest standards of quality for our products.





GENERAL WARNINGS

For best results, please read the following guidelines.

Minimum number of tests that can be performed

The number of tests is calculated by assuming reagent consumption of 10 drops per test, which is more than sufficient to cover even medium-large sections. If you wish to use a smaller number of drops when working with small samples, you must reduce the quantity of each reagent in the same proportion in order to avoid imbalances.

Completion time

The completion time is calculated according to the duration of the individual steps of which the method consists. It does not include the time taken for de-waxing, hydrating and dehydrating the section.

Essential basic equipment

To complete the kit, you will need the following essential basic equipment:

- Slide Master, code 15-MEQ0001, for horizontal slide staining
- Spray bottle containing distilled water to perform the steps required by the protocol
 Two series of solvents:
- descending for de-waxing the sections and bringing them to the water and ascending to dehydrate and diaphanize the section before mounting with coverglass.

We recommend the use of BioMount HM (codes 05-BMHM100 or 05-BMHM508) as the mounting medium.



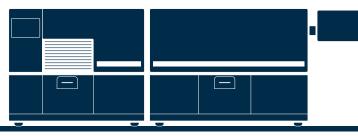


Additional equipment

The individual instructions indicate which equipment not included in the kit, but usually available in the laboratory, is necessary to complete the kit.

Fixatives and embedding media

The protocol times were determined on histological sections of fragments fixed in formalin buffered to pH 7 with phosphate buffer and subsequently embedded in paraffin.



Afog

PRODUCT AND APPLICATION

Afog Acid Fuchsin Orange G 04-021002

CODE

Minimum number of tests that can 100

be performed	
Completion time	22 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

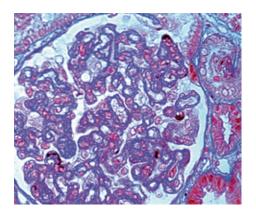
Reference method for highlighting protein deposits in renal biopsy. Recommended fixative: Bouin.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of reagent A and 5 drops of reagent B onto the section: leave to act for 10 minutes.
- 3) Tap water for 5 minutes.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 5 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 5 minutes.
- 7) Wash in distilled water.
- 8) Dehydrate rapidly by means of the ascending series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

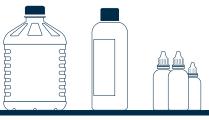
KIDNEY

Results



Result

Collagen fibrils	blue
Nuclei	black
Erythrocytes, cytoplasm	pink - orange
Elastic fibers	pale pink - yellow or colorless
Protein deposits	bright red



PRODUCT AND APPLICATION	CODE	AgNOR
AgNOR	04-045801	_
	12 preparations (up to 4 slides per preparation)	
be performed		_
Completion time	30 minutes	
Shelf life	1 year	_
Storage conditions	15-25°C	_
Additional equipment	glass rod, jars for washing in distilled water	_

Application

Method for highlighting argentaffin proteins (100 kD) in the nucleolus organizer region (NOR) on paraffin-embedded sections and smears.

Method

- 1) Bring the section to the distilled water.
- 2) Preparation of the work solution: place the slide container in the polystyrene stand. Pour the entire contents of bottle A and the entire contents of a bottle B into the container. Stir briefly with a glass rod previously washed in distilled water.
- 3) Place the section in the solution and incubate in the dark for 30 minutes at room temperature.
- 4) Wash thoroughly in three changes of distilled water.
- 5) Dispense 10 drops of reagent C onto the section: leave to act for 1 minute.
- 6) Wash in distilled water.
- 7) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

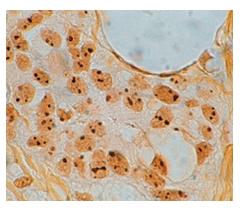
ResultAgNOR, argentaffin granulesblack

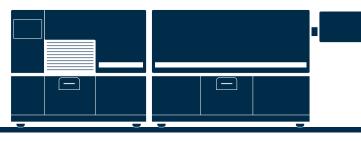
WARNINGS

- For washing, it is imperative to use top-quality distilled water.
- Do not use Poly-L-Lysine coated slides.
- Do not use metal objects (racks, forceps).
- After mounting, keep the slides in the dark.



BREAST





Alcian Blue pH 0.5

PRODUCT AND APPLICATION

Alcian Blue pH 0.5 04-165812

CODE

Minimum number of tests that can 100

be performed	
Completion time	50 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

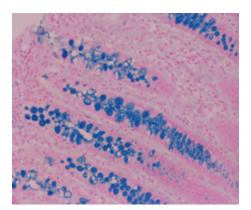
Method indicated for highlighting strongly sulfated mucins.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 3 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of reagent B onto the section: leave to act for 30 minutes.
- 4) Without washing, drain the slide and dispense 10 drops of reagent C onto the section: leave to act for 10 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 5 minutes.
- 7) Wash in distilled water.
- 8) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

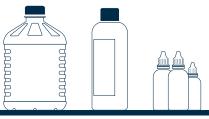
INTESTINE

Results



Result

Strongly sulfated mucins	blue
Nuclei	red



Alcian Blue pH 1

Staining and mounting

	PRODUCT AND APPLICATION		CODE
)	Alcian Blue pH 1.0		04-166802
	Minimum number of tests that can be performed	100	
	Completion time	50 minutes	
	Shelf life	2 years	
	Storage conditions	15-25°C	

Application

Additional equipment

Method indicated for highlighting acid mucopolysaccharides on tissue sections.

Not required

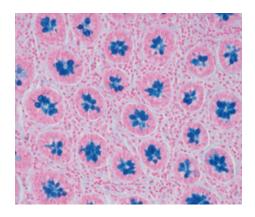
Method

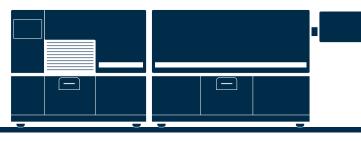
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 30 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of reagent B onto the section: leave to act for 10 minutes.
- 4) Wash in distilled water.
- 5) Dispense 10 drops of reagent C onto the slide: leave to act for 5 minutes.
- 6) Wash in distilled water.
- 7) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

Result		
Acid mucopolysaccharides	blue - turquoise	
Nuclei	red	



COLON





Alcian Blue pH 2.5

PRODUCT AND APPLICATION

Alcian Blue pH 2.5 04-160802

CODE

Minimum number of tests that can	100
be performed	
Completion time	50 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

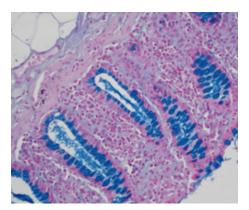
Method indicated for highlighting acid mucopolysaccharides on tissue sections.

Method

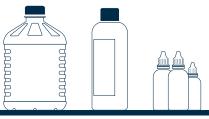
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 30 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of reagent B onto the section: leave to act for 10 minutes.
- 4) Wash in distilled water.
- 5) Dispense 10 drops of reagent C onto the slide: leave to act for 5 minutes.
- 6) Wash in distilled water.
- 7) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

INTESTINE

Results



Acid mucopolysaccharides	blue - turquoise
Nuclei	red



	PRODUCT AND APPLICATION		CODE	Alcian Blue pH 2.5 - pH 1
•	Alcian Blue pH 2.5 - pH 1		04-161802	-
	Minimum number of tests that can be performed	100		
				—

Completion time	50 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

Method indicated for highlighting and differentiating acid mucopolysaccharides on tissue sections.

In order to distinguish sulfated mucins from weakly sulfated mucins, hyaluronic acid and sialomucins, the method requires the use of 2 serial sections.

By treating the first with Alcian Blue pH 2.5 and the next with Alcian Blue pH 1 and then comparing the preparations, it is possible to differentiate the weakly sulfated mucins from sulfated mucins, hyaluronic acid and sialomucins.

Method

METHOD FOR PH 2.5

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 30 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of reagent B onto the section: leave to act for 10 minutes.
- 4) Wash in distilled water.
- 5) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

METHOD FOR PH 1.0

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent C onto the section: leave to act for 30 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of reagent D onto the
- section: leave to act for 10 minutes.
- 4) Wash in distilled water.
- 5) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

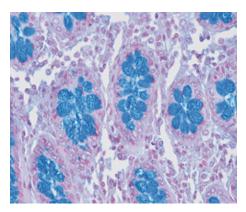
Result

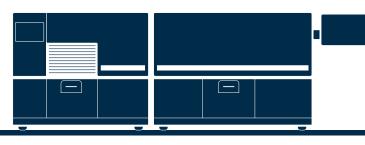
Acid mucopolysaccharides

blue - turquoise

Results

COLON





Alcian Blue pH 2.5 P.A.S.

PRODUCT AND APPLICATION

CODE

 Alcian Blue
 pH 2,5
 PAS
 04-163802

Minimum number of tests that can 100

pe performed		
Completion time	1 hour 25 minutes	
Shelf life	1 year	
Storage conditions	2-8°C	
Additional equipment	Not required	

Application

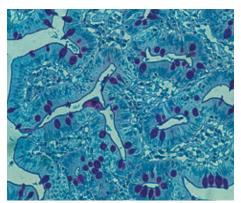
Combined method for differentiating acid mucins, neutral mucins and carbohydrates on tissue sections.

Method

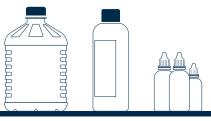
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 30 minutes.
- 3) Without washing, drain the slide and dispense 15 drops of reagent B onto the section: leave to act for 10 minutes.
- 4) Wash for 5 minutes in tap water and for 2 minutes in distilled water.
- 5) Dispense 10 drops of reagent C onto the section: leave to act for 10 minutes.
- 6) Wash in distilled water.
- 7) Dispense 10 drops of reagent D onto the section: leave to act for 20 minutes.
- 8) Wash in distilled water.
- 9) Dispense 10 drops of reagent E onto the section: leave to act for 2 minutes.
- 10) Without washing, drain the slide and dispense 10 drops of reagent F onto the section: leave to act for 3 minutes.
- 11) Wash in distilled water.
- 12) Dispense 10 drops of reagent G onto the section: leave to act for 2 minutes.
- 13) Leave to develop in running tap water for 5 minutes.
- 14) Dehydrate in the ascending series of alcohols; xylene and balsam.

INTESTINE

Results



PAS-positive substances	magenta red
Acid mucopolysaccharides	blue - turquoise
Certain acid mucins and cartilage	from purple to dark blue



Alcian Yellow - Toluidine blue

Staining and mounting

PRODUCT AND APPLICATION	ID APPLICATION CODE	
Alcian Yellow - Toluidine blue for	Helicobacter pylori	04-169812
Minimum number of tests that can be performed	100	
Completion time	25 minutes	
Shelf life	2 years	
Storage conditions	15-25°C	
Additional equipment	Not required	

Application

Combined method for highlighting Helicobacter pylori and epithelial mucins on sections of gastric tissue; recommended section thickness 5 microns.

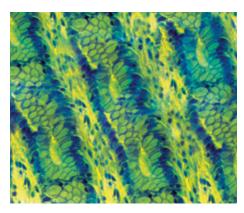
Method

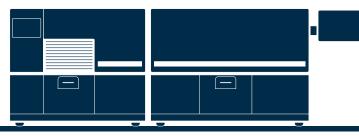
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash thoroughly in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 5 minutes.
- 5) Wash in tap water for 2 minutes.
- 6) Dispense 10 drops of reagent C onto the slide: leave to act for 5 minutes.
- 7) Wash thoroughly in distilled water.
- 8) Dispense 8 drops of reagent D and 2 drops of reagent E onto the section: leave to act for 3 minutes.
- 9) Wash thoroughly in distilled water.
- 10) Dry in air.
- 11) Dehydrate in alcohol; xylene and balsam.

Result		
Helicobacter pylori	blue	
Mucins	yellow	
Background	blue	



INTESTINE





Amylase - Enzymatic digestion

PRODUCT AND APPLICATION

Amylase - enzymatic digestion 04-140808

Minimum number of tests that can 100

be performed	
Completion time	10 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Vertical jar

CODE

Application

Removal of glycogen from

- Hepatic tissue, paraffin-embedded sections: digestion on a histological section with a solution of amylase is indicated when you want to remove the glycogen so as to observe only the neutral epithelial mucins. It is the method of choice in liver biopsy.

- Muscle tissue: the examination of adjacent cryostat sections, one of which has been treated with amylase, allows qualitative evaluation of the presence of glycogen.

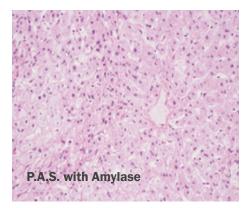
LIVER



Method

- 1) Bring the section to the distilled water.
- 2) Bring the amylase solution to room temperature.
- 3) Cover the section with the amylase solution: leave to act for 10 minutes at room temperature.
- 4) Wash the slide several times in distilled water.
- 5) Proceed with the PAS reaction in the normal manner.





Result

The removal of glycogen can be detected, after PAS reaction, by comparing the sample section with an adjacent section of the same preparation that has not been treated with amylase.



Azan Trichrome

Staining and mounting

PRODUCT AND APPLICATION		CODE	
Azan Trichrome		04-001802	
Minimum number of tests that can be performed	100		
Completion time	1 hour 40 minutes		
Shelf life	2 years		
Storage conditions	15-25°C		
Additional equipment	Vertical histology jar, oven		

Application

The method of choice for connective tissue, particularly indicated for muscle and glial fiber, collagen, reticulum, glomerular stroma of the kidney, erythrocytes and nuclear chromatin on histological sections.

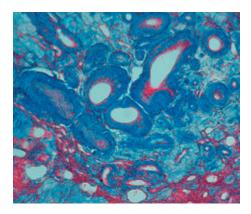
Method

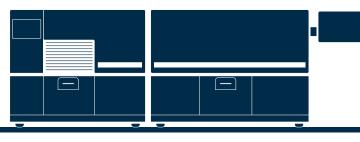
- 1) Bring the section to the distilled water.
- 2) Incubate the section in reagent A in an oven at 56°C for 30 minutes, then remove from the oven and wait for 5 minutes. Retrieve the stain and transfer it to bottle A without filtering it.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 1 minute.
- 5) Drain on filter paper, then dispense 10 drops of reagent C onto the section: leave to act for 1 minute.
- 6) Drain on filter paper, then dispense 10 drops of reagent D onto the section: leave to act for 30 minutes.
- 7) Drain on filter paper and without washing, dispense 10 drops of reagent E onto the section: leave to act for 30 minutes.
- 8) Wash quickly in 95° ethanol. Dehydrate in the ascending series of alcohols; xylene and balsam.

Result Collagen, reticulum, basophil- ic cytoplasmic granules of the pituitary gland, juxtaglomerular granules and glomerular stroma of the kidney	blue
Neurofibrils (glia)	reddish
Muscle	orange
Nuclei, erythrocytes and acidophilic	red
granules of the pituitary gland	
Cytoplasmic granules of the delta	blue
cells of the pituitary gland	



OVARY





Bielschowsky

PRODUCT AND APPLICATION

Bielschowsky for neurofibrils 04-040805

CODE

Minimum number of tests that can	100
be performed	
Completion time	45 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	oven, 50 ml Coplin jar, glass rod

Application

The method of choice for viewing neurofibrils, axons, dendrites and senile plaques. Usable on sections fixed in 10% formalin and embedded in paraffin, having a thickness of 8 – 10 $\mu m.$

Method

- 1) Bring the section to the distilled water.
- 2) Place the slide in a humid chamber, dispense 10 drops of reagent A onto the section; close the lid and incubate in the oven at 40°C for 15 minutes.
- 3) Remove the slide from the humid chamber and wash the section thoroughly in distilled water.
- 4) Return the slide to the humid chamber and dispense 10 drops of reagent B onto the section: close the lid and incubate in the oven at 50/55°C for 20 minutes. During this incubation period, prepare the reducing solution as follows: dispense 50 ml of distilled water into a Coplin jar and add 20 drops of reagent C, 8 drops of reagent D, 8 drops of reagent E and 8 drops of reagent F. Stir briefly with a glass rod.
- 5) Without washing, drain the slide and place it in the reducing solution: leave to act for 1-2 minutes.
- 6) Wash twice in distilled water.
- 7) Dispense 10 drops of reagent G onto the section: leave to act for 3 minutes.
- 8) Wash twice in distilled water.
- 9) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

Result

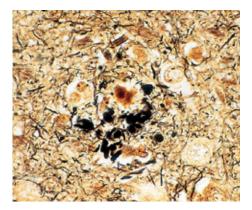
Neurofibrils and senile plaques	black
Background	from yellow to brown

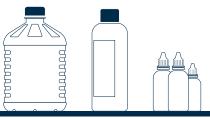
WARNINGS

The success of the reaction depends on rigorous adherence to the following rules:

- Always use good-quality, totally chlorine-free distilled or deionized water.
- Use only rigorously clean glassware or plastic ware.
- Never bring metal objects (forceps etc.) into contact with the solutions.

CEREBRAL CORTEX





Brown - Brenn

Staining and mounting

PRODUCT AND APPLICATION		CODE
Brown - Brenn for bacteria		04-100807
Minimum number of tests that can be performed	100	
Completion time	8 minutes	
Shelf life	2 vears	

Shell life2 yearsStorage conditions15-25 °CAdditional equipmentNot required

Application

Method for differentiating Gram-positive and Gram-negative bacteria on histological sections and smears.

Method

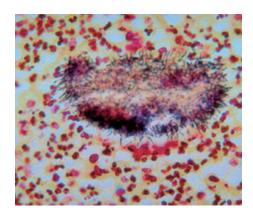
- 1) Bring the section to the distilled water.
- 2) Dispense 8 drops of reagent A and 2 drops of reagent B onto the section: leave to act for 1 minute.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 3 minutes
- 5) Wash in distilled water and dry the slide with filter paper.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 1 minute.
- 7) Drain without washing and dispense 10 drops of reagent E onto the section: leave to act for 1 minute
- 8) Wash in distilled water and dry the slide with filter paper.
- 9) Dispense 10 drops of reagent F onto the section: leave to act for 1 minute.
- 10) Drain without washing and dispense 10 drops of reagent G onto the section: leave to act for 30 seconds.
- 11) Xylene and balsam.

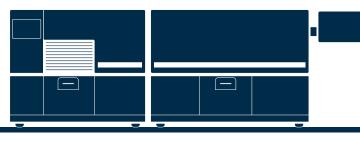
Result

Gram-positive bacteria	blue
Gram-negative bacteria	red
Actinomycetes (Nocardia)	blue
Nuclei	red
Other tissue elements	yellow

Results

OVARY





Dane

PRODUCT AND APPLICATION

Dane for keratin, modified 04-220822

CODE

Minimum number of tests that can	100
be performed	

be performed	
Completion time	40 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

For viewing prekeratin, keratin and mucin on histological sections, therefore particularly indicated for skin pathology.

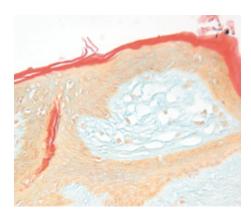
Method

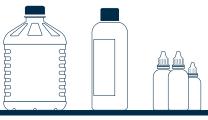
- 1) De-wax the section and bring it to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Leave to develop for 5 minutes in running tap water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 3 minutes.
- 5) Wash in tap water for 3 minutes.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 5 minutes.
- 7) Wash in tap water.
- 8) Dispense 10 drops of reagent D onto the section: leave to act for 13 minutes.
- 9) Wash in distilled water and dehydrate rapidly by means of the ascending series of alcohols, stopping for 1 minute in the last absolute, xylene and balsam.



Results

Prekeratin and keratin	orange, red - orange
Mucins	turquoise
Nuclei	orange - brown





	PRODUCT AND APPLICATION		CODE	Diastase - Enzymatic digestion
•	Diastase for enzymatic digestion		04-140805	
	Minimum number of tests that can	40		
	be performed			
	Completion time	30 minutes		
	Shelf life	1 year		
	Storage conditions	2-8°C		

Application

Additional equipment

Digestion on a histological section with a solution of diastase is always indicated when you want to remove the glycogen so as to observe only the neutral epithelial mucins. It is the method of choice in liver biopsy.

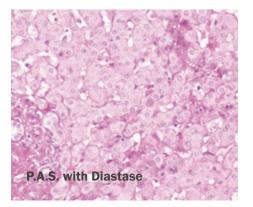
vertical jar

Method

- 1) Bring the section to the distilled water.
- 2) Bring the diastase solution to room temperature.
- 3) Incubate the slide at room temperature for 30 minutes.
- 4) Wash the slide several times in distilled water.
- 5) Proceed with the PAS reaction in the normal manner.

Results

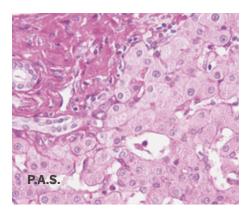
LIVER

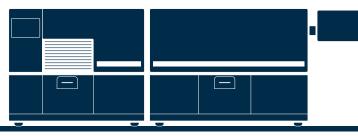


LIVER

Result

The removal of glycogen can be detected, after PAS reaction, by comparing the sample section with an adjacent section of the same preparation that has not been treated with diastase.





Colloidal iron

PRODUCT AND APPLICATION

Colloidal iron, method for acid mucins 04-180809

Minimum number of tests that can 100

be performed	
Completion time	1 hour 35 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	50 ml vertical histology jar, graduated cylinder and glass
	rod

CODE

Application

Indicated method for viewing acid mucins.

Specificity: the reaction shows acid mucins (sialomucins and sulfomucins) whose acid groups, at the reaction pH, take anionic form and are therefore capable of forming a stable complex with positive trivalent iron.

Method

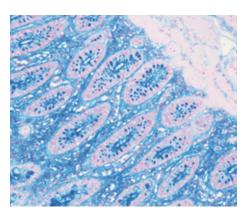
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 2 minutes.
- 3) Prepare the humid chamber as follows: soak the disk of filter paper with approximately 1 ml of distilled water, insert the slide and dispense 5 drops of reagent B and 5 drops of reagent C onto the section, then close the lid and incubate for 1 hour.
- 4) Without washing, drain the slide and dispense 10 drops of reagent D onto it: leave to act for 1 minute. Drain and repeat.
- 5) Without washing, drain the slide and dispense 10 drops of reagent E onto it: leave to act for 1 minute. Drain and repeat.
- 6) Drain the slide.
- 7) Prepare the potassium ferrocyanide solution as follows: pour the entire contents of a bottle F into a 50 ml Coplin jar. Add, in order, 30 ml of distilled water and 4 ml of reagent G. Stir briefly. Immerse the section for 10 minutes.
- 8) Wash thoroughly in distilled water.
- 9) Dispense 10 drops of reagent H onto the section: leave to act for 5 minutes.
- 10) Wash in distilled water.
- 11) Dehydrate in 95° and absolute ethanol; xylene and balsam.

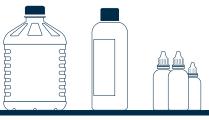
Result

Results

Acid mucins	blue
Cellular nuclei	red

INTESTINE





Feulgen

Staining and mounting

PRODUCT AND APPLICATION		CODE
Feulgen - reaction for DNA		04-120802
Minimum number of tests that can be performed	100	
Completion time	1 hour 5 minutes	
Shelf life	1 year	
Storage conditions	2-8°C	

Application

Additional equipment

The method is used to highlight deoxyribonucleic acid (DNA) on tissue sections.

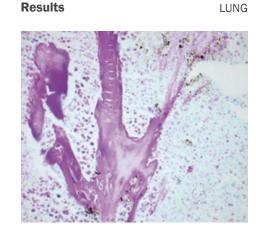
Not required

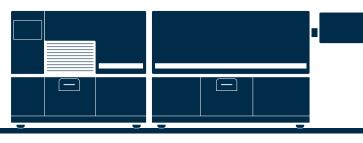
Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section, leave to act for 40 minutes. CAUTION: reagent A is corrosive. Handle with care and in an environment equipped with an extractor fan. Avoid contact with the skin and eyes. Wear protective gloves and goggles.
- 3) Wash twice in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 10 minutes.
- 5) Without washing, drain the slide and dispense 10 drops of reagent C onto it: leave to act for 2 minutes.
- 6) Without washing, drain the slide and dispense 10 drops of reagent D onto it: leave to act for 3 minutes.
- 7) Wash in running tap water for 5 minutes.
- 8) Dehydrate by means of the ascending series of alcohols; xylene and balsam.



magenta red





Fouchet-Van Gieson

PRODUCT AND APPLICATION

Fouchet-Van Gieson for bilirubin 04-121872

Minimum number of tests that can100be performed25 minCompletion time35 min

Completion time	35 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

CODE

Application

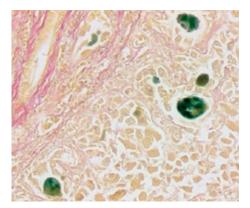
For highlighting bilirubin pigment on tissue sections.

Method

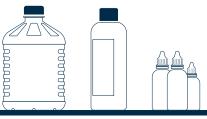
- 1) Bring the sections to the distilled water.
- 2) Dispense 5 drops of reagent A onto the section and add 5 drops of reagent B, leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 7 minutes.
- 5) Without washing, drain the slide and dry it first in filter paper, then in the air for 5 minutes.
- 6) Absolute alcohol for 15 seconds, xylene and balsam.

BILIRUBIN DEPOSITS

Results



nooune		
Bilirubin	green	
Connective	red	
Collagen	yellow	



Paraldehyde Fuchsin

Staining and mounting

PRODUCT AND APPLICATION		CODE
Paraldehyde Fuchsin - Gomori		04-045872
Minimum number of tests that can be performed	100	
Completion time	1 hour 15 minutes	
Shelf life	2 years	
Storage conditions	15-25°C	

Application

Additional equipment

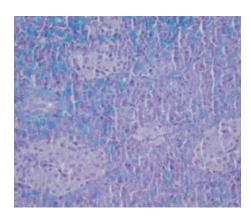
For viewing elastic fibers and secretory granules in alpha and beta cells of the islets of Langerhans of the endocrine pancreas.

Not required

Method

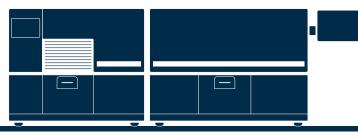
- 1) Bring the sections to the distilled water.
- 2) Dispense 5 drops of reagent A onto the section and add 5 drops of reagent B, leave to act for 10 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent C onto the section, leave to act for 5 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent D onto the section, leave to act for 5 minutes.
- 7) Without washing, drain the slide and place it in the humid chamber, then dispense 10 drops of reagent E onto the section and leave to act for 20 minutes.
- 8) Drain the slide and dispense 10 drops of reagent F onto the section, then leave to act for 10 minutes.
- 9) Wash the slide in distilled water.
- 10) Dispense 10 drops of reagent G onto the section, leave to act for 10 minutes.
- 11) Wash in distilled water.
- 12) Dispense 10 drops of reagent H onto the section, leave to act for 30 seconds.
- 13) Wash in distilled water, dehydrate in 95 and absolute alcohol, xylene and balsam.

Results Pancreatic beta-cell granules dark violet Cellular nuclei dark violet Connective tissue red Tessuto connettivo green



Results

PANCREAS



Giemsa

PRODUCT AND APPLICATION

Giemsa for Helicobacter pylori 04-090803

CODE

Minimum number of tests that can	75
be performed	
Completion time	1 hour
Shelf life	2 years

Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Graduated cylinder

Application

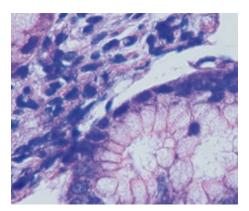
Method for viewing Helicobacter Pylori on sections from gastric biopsy. The qualitative and quantitative composition of the stain and the accurate differentiation make it possible to identify bacteria selectively on a particularly clean background.

Method

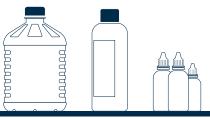
- 1) De-wax the sections and bring them to the water.
- 2) Prepare the buffer solution: take 5 ml of solution from bottle B and dilute in a ratio of 1:10.
 - Use the solution thus obtained to prepare the working Giemsa solution.
- 3) Prepare the working Giemsa solution: take 10 ml of reagent A and top up to 40 ml with the previously prepared buffer solution.
- 4) Place the solution in the jar and immerse the sections in it for 30 minutes.
- 5) Drain and, without washing, place the section in reagent C for 15 seconds.
- 6) Repeat step 5 with reagents D and E.
- 7) Diaphanize in xylene and mount with balsam.

GASTRIC MUCOSA

Results



Helicobacter pylori	blue, in the characteristic gullwing shape
Nuclei	blue
Cytoplasm	pink



Gordon-Sweet

Staining and mounting

PRODUCT AND APPLICATION		CODE	
Gordon-Sweet - for reticulum		04-040802	
Minimum number of tests that can be performed	100		
Completion time	40 minutes		
Shelf life	1 year		

Shelf life 1 year Storage conditions 2-8°C Additional equipment Not required

Application

The method of choice for viewing argyrophilic reticular fibers of connective tissue.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of reagent A and 5 drops of reagent B onto the section: leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 1 minutes.
- 5) Wash twice in distilled water.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 3 minutes.
- 7) Wash twice in distilled water.
- 8) Dispense 10 drops of reagent E onto the section: leave to act for 3 minutes.
- 9) Wash in distilled water.
- 10) Dispense 10 drops of reagent F onto the section: leave to act for 5 minutes.
- 11) Wash twice in distilled water.
- 12) Dispense 10 drops of reagent G onto the section: leave to act for 2 minutes.
- 13) Wash in distilled water.
- 14) Dispense 10 drops of reagent H onto the section: leave to act for 2 minutes.
- 15) Wash in distilled water.
- 16) Dispense 10 drops of reagent I onto the section: leave to act for 5 minutes.
- 17) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

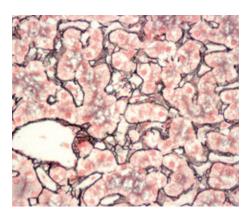
Result

F	Reticular and nerve fibers	black
١	Nuclei	red, pink

WARNINGS

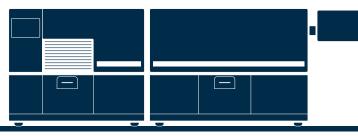
The success of the reaction depends on rigorous adherence to the following rules:

- Always use good-quality, totally chlorine-free distilled or deionized water.
- Use only rigorously clean glassware.
- Avoid depositing dust on the sections.
- Never bring metal objects (forceps etc.) into contact with the solutions.



Results

LIVER



PRODUCT AND APPLICATION

Gram for bacteria	04-100802

CODE

Minimum number of tests that can 100

be performed	
Completion time	40 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	3 vertical glass histology jars, funnel, filter, oven

Application

Method for differentiating Gram-positive and Gram-negative bacteria on histological sections, smears and tissue apposition.

Method

- 1) Bring the section to the distilled water.
- 2) Pour the contents of bottle A into a vertical histology jar, place the slide in it and incubate at 56-58°C for 15 minutes; retrieve the solution and transfer it to bottle A, filtering it through filter paper.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 3 minutes.
- 5) Drain the slide and, without washing it, dispense 10 drops of solution C onto it: leave to act for 3 minutes.
- 6) Wash in distilled water and dry the slide first in filter paper, then in the air for 10 minutes.
- 7) Pour the contents of bottle D into a vertical histology jar: stir the slide in it for 1 minute; retrieve the solution and transfer it to bottle D, filtering it through filter paper.
- 8) Repeat step 7 with reagent E.
- 9) Xylene and balsam.

NECROTIZING FASCIITIS

Result

Gram-positive bacteria	blue
Gram-negative bacteria	red
Nuclei	red



Grimelius

Staining and mounting

PRODUCT AND APPLICATION	CODE
Grimelius for argyrophilia	04-044822
Minimum number of tests that can be performed	100
Completion time	3 hours 35 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Graduated cylinder, 50 ml histology jar, oven

Application

For viewing argyrophilic substances on tissue sections and appositions.

Method

- 1) Bring the section to the distilled water.
- 2) Pour 40 ml of distilled water into a graduated cylinder, add 10 drops of reagent A and 10 drops of reagent B, pour the mixture into a 50 ml vertical histology jar and incubate the section in it for 3 hours in an oven at a temperature of 60°C.
- 3) Remove the jar from the oven and wait for 5 minutes: remove the slide, drain it and, without washing it, dispense 10 drops of reagent C and 10 drops of reagent D onto the section: leave to act for 5 minutes.
- 4) Wash in distilled water and dispense 10 drops of reagent G onto the section: leave to act for 5 minutes.
- 5) Wash the slide and dispense 10 drops of reagent E onto the section: leave to act for 10 minutes.
- 6) Without washing, drain the slide and dispense 10 drops of reagent F onto the section: leave to act for 5 minutes.
- 7) Wash the slide and dispense 10 drops of reagent G onto the section: leave to act for 5 minutes.
- 8) Wash the slide in distilled water, and dehydrate by means of the ascending series of alcohols, xylene and balsam.

Results OVAF	RIAN CANCER	METASTASIS
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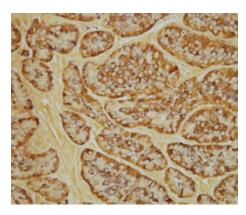
Argyrophilic granules

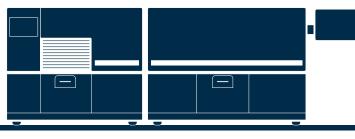
from light brown to black

WARNINGS

Use only thoroughly cleaned glassware

- do not bring metal items (forceps etc.) into contact with solutions containing silver. •
- use only top-quality distilled (or deionized) water.
- avoid fixatives containing salts of heavy metals.





Grocott

PRODUCT AND APPLICATION

CODE

Grocott for fungi 04-043823

Minimum number of tests that can 120 be performed

Completion time	1 hour 50 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	graduated cylinder, glass rod, oven

Application

Method used for viewing fungi on a tissue section.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section, leave to act for 20 minutes. Wash in running water for a few seconds.
- 3) Dispense 10 drops of reagent B onto the section: leave to act for 1 minute. Wash in tap water for 5 minutes.
- 4) Wash in four changes of distilled water.
- 5) Pour 17 ml of distilled water into a slide container and add: 20 drops of reagent C, 10 drops of reagent D, 20 drops of reagent E. Stir briefly with a glass rod washed in distilled water.
- 6) Place the slide in the container and incubate for 1 hour in an oven at 60°C.
- 7) Remove the container from the oven and leave to cool for 10 minutes. Wash in 6 changes of distilled water.
- 8) Dispense 10 drops of reagent F onto the section; leave to act for 3 minutes. Rinse in distilled water.
- 9) Dispense 10 drops of reagent G onto the section; leave to act for 5 minutes. Wash in tap water.
- 10) Dispense 10 drops of reagent H onto the section; leave to act for 30 seconds.
- 11) Dehydrate by means of the ascending series of alcohols; xylene and balsam.
- II) Denyurate by means of the ascending series of aconois, xylene and balsan

Result		
Fungi	clearly outlined in black	
Mucins	dark gray	
Background	green	

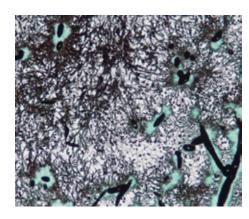
WARNINGS

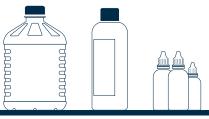
Results

The success of the reaction depends on rigorous adherence to the following rules:

- Avoid contaminating the section and microscope slide with non-pathogenic fungi (handle only with gloves, do not leave the preparation exposed to air).
- Always use recently distilled water.
- Use only rigorously clean glassware.
- Avoid depositing dust on the sections.
- Never bring metal objects (forceps etc.) into contact with the solutions.

LUNG





	PRODUCT AND APPLICATION		CODE	Grocott for microwave over
•	Grocott MW for fungi		04-043823W	
	Minimum number of tests that can be performed	120		
	Completion time	50 minutes		
	Shelf life	1 year		
	Storage conditions	2-8°C		
	Additional equipment	graduated cylinder, glass rod, over	1	

Application

Method used for viewing fungi on a tissue section.

Method

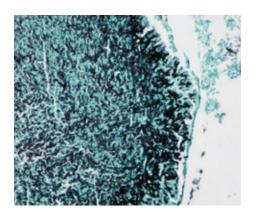
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section, leave to act for 20 minutes. Wash in running water for a few seconds.
- 3) Dispense 10 drops of reagent B onto the section: leave to act for 1 minute. Wash in tap water for 5 minutes.
- 4) Wash in four changes of distilled water.
- 5) Pour 40 ml of distilled water into a 50 ml Coplin jar and add: 30 drops of reagent C, 15 drops of reagent D, 20 drops of reagent E. Stir briefly with a glass rod washed in distilled water.
- 6) Put the slides in the jar and place in a microwave oven at 500W for 1 minute.
- 7) Remove the jar from the oven and leave to cool for 5 minutes. Wash in 6 changes of distilled water.
- 8) Dispense 10 drops of reagent F onto the section; leave to act for 3 minutes. Rinse in distilled water.
- 9) Dispense 10 drops of reagent G onto the section; leave to act for 5 minutes. Wash in tap water.
- 10) Dispense 10 drops of reagent H onto the section; leave to act for 30 seconds.
- 11) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

Result	
Fungi	clearly outlined in black
Mucins	dark gray
Background	green

WARNINGS

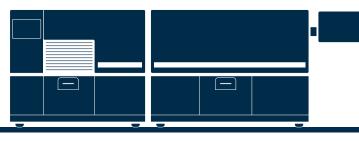
The success of the reaction depends on rigorous adherence to the following rules:

- Avoid contaminating the section and microscope slide with non-pathogenic fungi (handle only with gloves, do not leave the preparation exposed to air).
- Always use recently distilled water.
- Use only rigorously clean glassware.
- Avoid depositing dust on the sections.
- Never bring metal objects (forceps etc.) into contact with the solutions.



Results

NASAL POLYP



Hyaluronidase enzymatic digestion

 PRODUCT AND APPLICATION
 CODE

 Hyaluronidase, for enzymatic digestion
 04-150805

Minimum number of tests that can	10
be performed	
Completion time	10 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	100 ml vertical jar, oven

Application

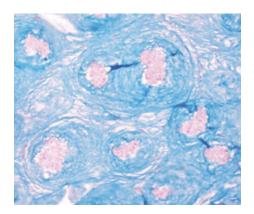
The digestion of histological sections with hyaluronidase is indicated for removing the following complex carbohydrates: hyaluronic acid and chondroitin sulfate A and B.

Method

- 1) Bring two serial sections to the water (one sample section and one control section).
- 2) Prepare the hyaluronidase solution: pour the entire contents of bottle B into bottle A (you are advised to set aside a portion of buffer A and use it for washing bottle B after the transfer of the enzyme.) Stir vigorously until completely dissolved. Transfer the resulting solution to a vertical histology jar. Place the sample section in it.
- 3) Transfer the entire contents of bottle C to a vertical histology jar. Place the control section in it.
- 4) Incubate both sections for one hour at 37 °C.
- 5) Wash both slides in running water for 5 minutes.
- 6) Stain with Alcian Blue.

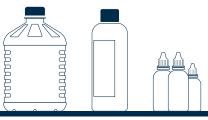
COLON

Results



Result

The absence of staining with Alcian Blue detectable on the sample section is attributable to the presence of hyaluronic acid or chondroitin sulfates.



PRODUCT AND APPLICATION		CODE	Silver impregnation
Silver impregnation staining for re	ticulum	04-040801	
Minimum number of tests that can be performed	100		
Completion time	35 minutes		-
Shelf life	1 year		-
Storage conditions	2-8°C		-
Additional equipment	Not required		-

Application

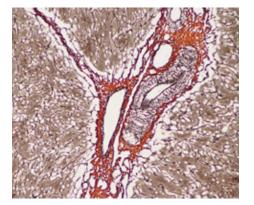
The method of choice for viewing argyrophilic reticular fibers of connective tissue.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of reagent A and 5 drops of reagent B onto the section: leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 3 minutes.
- 5) Wash twice in distilled water.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 3 minutes.
- 7) Wash twice in distilled water.
- 8) Dispense 10 drops of reagent E onto the section: leave to act for 3 minutes.
- 9) Wash in distilled water.
- 10) Dispense 10 drops of reagent F onto the section: leave to act for 5 minutes.
- 11) Wash twice in distilled water.
- 12) Dispense 10 drops of reagent G onto the section: leave to act for 5 minutes.
- 13) Wash in tap water for 5 minutes.
- 14) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

Results

LIVER



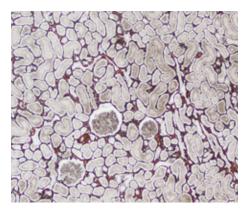
KIDNEY

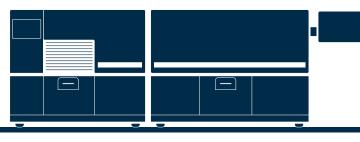
Result	
Reticular and nerve fibers	black
Connective tissue	brown
Collagen	yellow

WARNINGS

The success of the reaction depends on rigorous adherence to the following rules:

- Always use good-quality, totally chlorine-free distilled or deionized water.
- Use only rigorously clean glassware.
- Avoid depositing dust on the sections.
- Never bring metal objects (forceps etc.) into contact with the solutions.





Luxol fast blue

PRODUCT AND APPLICATION

Luxol fast blue, Klüver-Barrera method 04-200812

Minimum number of tests that can100be performed20 minutes + overnightCompletion time20 minutes + overnightShelf life2 years

•	5
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

CODE

Application

Method indicated for showing myelin and phospholipids on histological sections.

Method

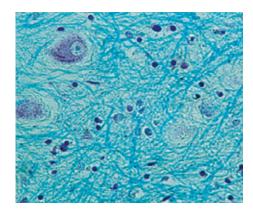
- 1) De-wax the section and bring it to the 95° ethanol.
- 2) Prepare the humid chamber by wetting the filter in the Petri dish with distilled water, place the slide in the rack and then dispense 10 drops of reagent A onto the section; close the lid of the dish immediately and incubate in an oven at 56°C overnight.
- 3) Remove the slide from the humid chamber and wash in 95° ethanol (the crystallized residues of reagent A must also dissolve).
- 4) Wash in distilled water.
- 5) Dispense 10 drops of reagent B onto the section: leave to act for 30 seconds.
- 6) Differentiate in 70° ethanol until the myelinated fibers appear in blue against an almost colorless background (if differentiation proves difficult, repeat step 5 for 30 seconds and put the preparation in 70° ethanol again).
- 7) Wash thoroughly in distilled water (at least 2 changes).
- 8) Prepare the humid chamber; dispense 10 drops of reagent C and 5 drops of reagent D onto the preparation, then incubate at 56°C for 20 minutes.
- 9) Differentiate the preparation in 95° ethanol until the Nissl substance turns pale pink.
- 10) Dehydrate in absolute ethanol; xylene and balsam.

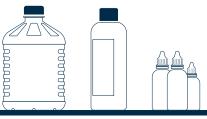
Result

Myelin	turquoise blue
Neurons and glial nuclei	from pink to violet
Nissl substance	pale pink

CEREBELLUM







PRODUCT AND APPLICATION		CODE	Mallory's Trichrome
Mallory's Trichrome		04-020802	-
Minimum number of tests that on be performed	an 100		
Completion time	20 minutes		_
Shelf life	2 years		_
Storage conditions	15-25°C		_
Additional equipment	Not required		_

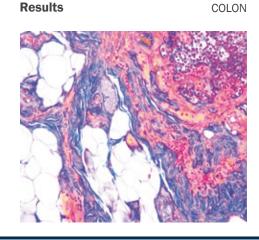
Application

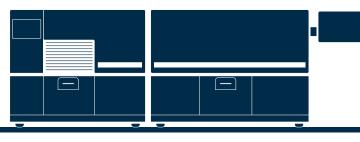
The standard method for viewing connective tissue on histological sections; particularly indicated for highlighting collagen, reticulum, cartilage, bone and amyloid.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 2 minutes.
- 5) Wash quickly in tap water (2-3 seconds) and dispense 10 drops of reagent C onto the section: leave to act for 5 minutes.
- 6) Without washing, drain the slide and dispense 10 drops of solution D onto the section: leave to act for 1 minute.
- 7) Wash in distilled water and dehydrate rapidly by means of the ascending series of alcohols, stopping for 1 minute in the last absolute, xylene and balsam.

Result	
Nuclei, neurofibrils, myoglia,	red
cartilage and bone tissue	
Collagen fibrils	blue
Myelin	golden yellow
Elastic fibers	pale pink - yellow or colorless
Erythrocytes	yellow





Masson Fontana

PRODUCT AND APPLICATION

Masson Fontana for melanin 04-041822

CODE

Minimum number of tests that can	100
be performed	
Completion time	45 minutes + overnight
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Not required

Application

The method of choice for viewing melanin pigment on sections of histological tissue.

Method

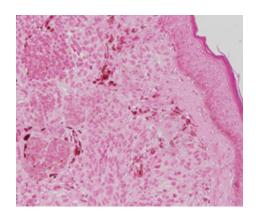
- 1) Bring two slides of the same preparation to distilled water.
- 2) Use one of the two slides as a control. Perform steps 3-4 on the control section only.
- 3) Dispense 10 drops of reagent B and 10 drops of reagent C onto the control slide: leave to act for 20 minutes and then wash in distilled water.
- 4) Dispense 10 drops of reagent D onto the control slide: leave to act for 5 minutes and then wash in distilled water.
- 5) Prepare the humid chamber and place the two slides (sample and control) in it, then dispense 10 drops of reagent A onto each section, close the lid of the humid chamber and leave overnight.
- 6) Wash the incubated sections in distilled water and dispense 10 drops of reagent E onto them: leave to act for 5 minutes.
- 7) Wash in distilled water.
- 8) Dispense 10 drops of reagent F onto the control slide and the sample slide: leave to act for 10 minutes.
- 9) Wash in distilled water.
- 10) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

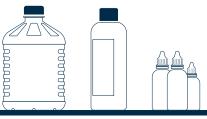
Result

Results

Result			
Melanin pigment	brick red - black in the section under examination; absent in the		
	control section (the presence of black precipitate on the control		
	section indicates a false positive)		
Nuclei	pink		

SKIN





	PRODUCT AND APPLICATION		CODE	Masson Trichrome
•	Masson Trichrome with aniline blu	e	04-010802	
	Minimum number of tests that can be performed	100		
	Completion time	35 minutes		
	Shelf life	2 years		
	Storage conditions	15-25°C		

Application

Additional equipment

The method of choice for connective tissue, particularly indicated for gametes, nuclei, neurofibrils, glia, collagen, keratin, intracellular fibrils and negative images of the Golgi apparatus.

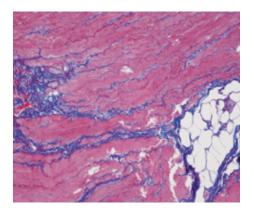
Not required

Method

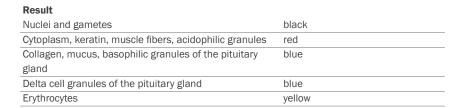
- 1) Bring the section to the distilled water.
- 2) Dispense 6 drops of reagent A onto the section and add 6 drops of reagent B: leave to act for 10 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of solution C onto the section: leave to act for 4 minutes.
- 4) Wash quickly (3-4 seconds) in distilled water, leaving the section yellow in color, and dispense 10 drops of solution D onto the slide: leave to act for 4 minutes.
- 5) Wash in distilled water and dispense 10 drops of solution E onto the section: leave to act for 10 minutes.
- 6) Without washing, drain the slide and dispense 10 drops of solution F onto it: leave to act for 5 minutes.
- 7) Wash in distilled water and dehydrate rapidly by means of the ascending series of alcohols, pausing for 1 minute in the last absolute: xylene and balsam.

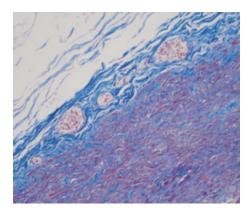
Results

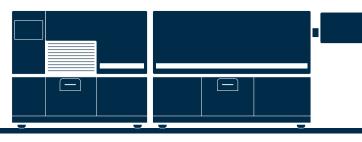
STOMACH



ARTERY







Masson - Goldner Trichrome

PRODUCT AND APPLICATION

Masson-Goldner Trichrome with light green 04-011802

CODE

Minimum number of tests that can 100

be performed	
Completion time	35 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

The method of choice for connective tissue, indicated for highlighting gametes, nuclei, neurofibrils, glia, collagen, keratin, intracellular fibrils and negative images of the Golgi apparatus.

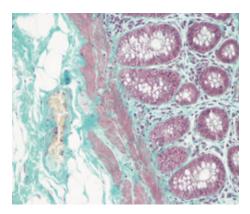
Particularly indicated for black and white micro-photography.

Method

Results

- 1) Bring the section to the distilled water.
- 2) Dispense 6 drops of reagent A onto the section and add 6 drops of reagent B : leave to act for 10 minutes.
- 3) Without washing, drain the slide and dispense 10 drops of solution C onto the section: leave to act for 4 minutes.
- 4) Wash quickly (3-4 seconds) in distilled water and dispense 10 drops of solution D onto the slide: leave to act for 4 minutes.
- 5) Wash in distilled water and dispense 10 drops of solution E onto the section: leave to act for 10 minutes.
- 6) Without washing, drain the slide and dispense 10 drops of solution F onto it: leave to act for 5 minutes.
- 7) Wash in distilled water and dehydrate rapidly by means of the ascending series of alcohols, leaving for 1 minute in the last absolute: xylene and balsam.

COLON

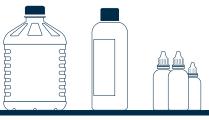


Result

black
red
green
green
yellow

COLON

10.2



PRODUCT AND APPLICATION		CODE	May Grünwald Giemsa
May Grünwald Giemsa for section	3	04-081802	-
Minimum number of tests that can be performed	100		
Completion time	35 minutes		-
Shelf life	2 years		-
Storage conditions	15-25°C		-

Application

Additional equipment

The method of choice for differentiating cell types and highlighting parasites on tissue sections; particularly indicated for lymphohematopoietic tissue. This stain is often used for identifying endothelial reticulum.

Graduated cylinder

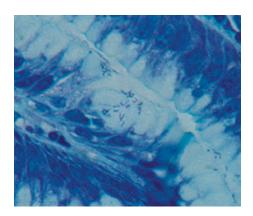
Method

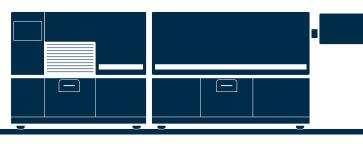
- 1) De-wax the section and bring it to the 70° ethanol.
- 2) Prepare the buffer solution: Pour 20 ml of distilled water into the attached container and add 10 drops of concentrated solution B. The diluted solution thus obtained will be designated "buffer solution B".
- 3) Dispense 10 drops of buffer solution B onto the section: leave to act for 2 minutes.
- 4) Drain the slide and dispense 10 drops of reagent A and 5 drops of buffer solution B onto it: leave to act for 5 minutes.
- 5) Pipette 10 ml of buffer solution B and wash the slide thoroughly with it.
- 6) Dispense 10 drops of reagent C and 10 drops of buffer solution B into the dish, stir, place on the slide and leave to act for 12 minutes.
- 7) Differentiate in: 95° ethanol for 10 seconds, absolute ethanol for 30 seconds; absolute ethanol for 30 seconds.
- 8) Xylene and balsam.

Result	
Nuclei	blue
Basophilic cytoplasm	from sky blue to dark blue
Acidophilic cytoplast	pink
Bacteria	blue

Results

STOMACH





Mucicarmine

PRODUCT AND APPLICATION

Mayer's mucicarmine 04-190812

CODE

Minimum number of tests that can 100

be performed	
Completion time	50 minutes
Shelf life	1 year
Storage conditions	15-25°C
Additional equipment	Graduated pipette

Application

Method indicated for highlighting acid mucopolysaccharides of epithelial nature (mucins) on histological sections.

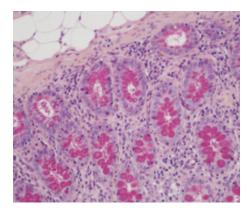
The use of Mucicarmine is of relative specificity, in fact mucins deriving from fibroblasts are generally weakly highlighted.

Method

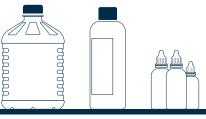
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section; leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Leave to develop in running water for 5 minutes.
- 5) Pipette 0.5 ml of distilled water into the dish, add 10 drops of reagent
- B, stir and transfer the mixture thus obtained to the slide: leave to act for 30 minutes.
- 6) Wash in distilled water.
- 7) Dispense 10 drops of reagent C onto the section: leave to act for 1 minute.
- 8) Wash in distilled water.
- 9) Dehydrate rapidly by means of the ascending series of alcohols, stopping in the last absolute; xylene and balsam.

COLON

Results



Mucins	from dark pink to red
Nuclei	blue – violet
Other components	orange



	PRODUCT AND APPLICATION		CODE	Nitro blue tetrazolium
•	Nitroblue tetrazolium		04-253031	-
	Minimum number of tests that can be performed	15		
	Completion time	30 minutes		-
	Shelf life	2 years		-
	Storage conditions	2-8°C		_
	Additional equipment	Oven		

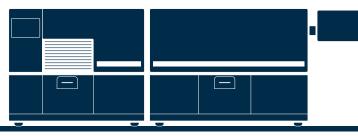
Application

Post mortem, infarcted areas of the myocardium undergo a series of changes that are visible in sequence. In the first 6-12 hours after the acute episode, the myocardial infarction is generally neither macroscopically nor microscopically detectable. The ischemic muscle can, however, be highlighted, showing the loss of its oxidative activity with nitroblue tetrazolium staining on fresh sample: the infarcted area remains unstained.

Method

- 1) To obtain 150 ml of ready-to-use solution: pour the entire contents of reagents A, B and C into a container of appropriate size and capacity. Stir briefly.
- 2) Immerse the sample of heart in the solution obtained and incubate at 37 °C for 20-30 minutes.
- 3) Wash in tap water and observe the sample: the infarcted area appears pale, not stained.





Oil red 0

PRODUCT AND APPLICATION

CODE

04-220923

Oil red 0			

Minimum number of tests that can 100

be performed	
Completion time	25 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Glass histology jar with lid

Application

Method indicated for highlighting lipids on cryostat sections of tissue having a thickness of 5 $\mu\text{m}.$

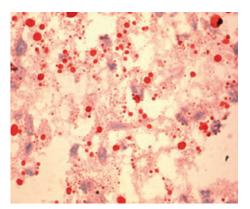
Fixation: you are advised to use saline formalin or Baker fixative in order to make the phospholipids less soluble.

Method

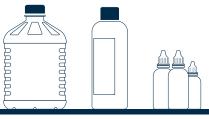
- 1) Bring the section to the distilled water.
- 2) Place the reagent A in the jar and immerse the section in it for 20 minutes.
- 3) Wash briefly in tap water.
- 4) Drain and dispense 10 drops of reagent B onto the section: leave to act for 30 seconds.
- 5) Leave to develop in tap water for 3 minutes.
- 6) Drain and mount with aqueous mounting medium.

ADIPOSE TISSUE

Results



Fatty acids bright	red
Nuclei	blue



Orcein

Staining and mounting

PRODUCT AND APPLICATION		CODE	
Orcein for elastic fibers		04-055802	
Minimum number of tests that can be performed	100		
Completion time	30 minutes		
Shelf life	2 years		
Storage conditions	15-25°C		
Additional equipment	Not required		

Application

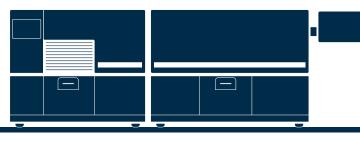
Identification of elastic fibers on tissue sections.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of reagent A and 5 drops of reagent B onto the section. Leave to act for 4 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent C onto the section. Leave to act for 1 minute.
- 5) Wash in distilled water.
- 6) Prepare the humid chamber as follows: soak the disc of filter paper with 20 drops of reagent A, insert the slide in the humid chamber and dispense 10 drops of reagent E onto the section. Close the lid and incubate for 20 minutes.
- 7) Wash in distilled water.
- 8) Dispense 10 drops of reagent F onto the section. Leave to act for 2 minutes.
- 9) Wash in running water for 1 minute.
- 10) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

Results	ELASTIC FIBERS
STATE SEES SK TOLES SI	Space

- P	result	
E	Elastic fibers	from dark brown to dark purple
E	Background	almost colorless



P.A.S. Periodic Acid Schiff

PRODUCT AND APPLICATION

P.A.S. Periodic Acid Schiff Hotchkiss - Mc Manus
 04-130802

CODE

Minimum number of tests that can 100

be performed	
Completion time	50 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Not required

Application

For highlighting normal or pathological tissue components, distinguished by adjacent glycol or amino hydroxyl groups on histological sections and on blood smears and cytology smears.

Method

•

Results

METHOD FOR HISTOLOGICAL SECTIONS

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 20 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of solution C onto the section: leave to act for 2 minutes.
- 7) Drain the slide and, without washing, dispense 10 drops of reagent D onto the section: leave to act for 2 minutes.
- 8) Wash in distilled water.
- 9) Dispense 10 drops of reagent E onto the section: leave to act for 3 minutes.
- 10) Leave to develop in running water for 5 minutes.
 - 11) Dehydrate in the ascending series of alcohols, xylene and balsam.

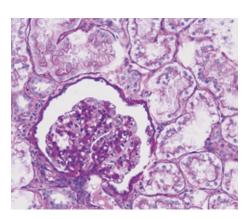
METHOD FOR BLOOD SMEARS AND CYTOLOGY SMEARS

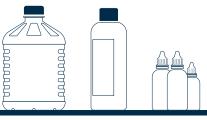
- 1) Place the air-dried smears in distilled water.
- 2) Dispense 10 drops of reagent A onto the smear: leave to act for 10 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the smear: leave to act for 20 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of solution C onto the smear: leave to act for 2 minutes.
- 7) Drain the slide and, without washing, dispense 10 drops of reagent D onto the smear: leave to act for 2 minutes.
- 8) Wash in distilled water.
- 9) Dispense 10 drops of reagent E onto the smear: leave to act for 3 minutes.
- 10) Leave to develop in running water for 5 minutes.
- 11) Dehydrate in the ascending series of alcohols, xylene and balsam.

Result

PAS-positive substances	magenta red
Nuclei	blue

KIDNEY





P.A.S. Picro Indigo Carmine

Staining and mounting

PRODUCT AND APPLICATION		CODE
P.A.S. Picro Indigo Carmine Morel	- Maronger modified	04-131802
Minimum number of tests that can be performed	100	
Completion time	45 minutes	
Shelf life	1 year	
Storage conditions	2-8°C	

Application

Method indicated for simultaneous highlighting of neutral mucopolysaccharides and connective tissue on tissue sections.

Not required

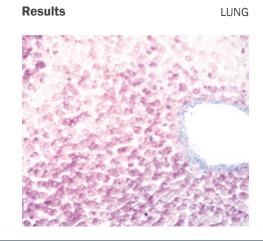
Method

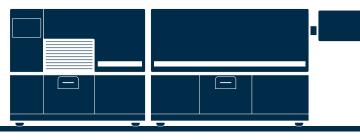
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash in distilled water.

Additional equipment

- 4) Dispense 10 drops of reagent B onto the section: leave to act for 15 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 2 minutes.
- 7) Drain the slide and, without washing, dispense 10 drops of reagent D onto the section: leave to act for 3 minutes.
- 8) Wash first in distilled water and then in tap water for 5 minutes.
- 9) Dispense 10 drops of solution E onto the slide: leave to act for 5 minutes.
- 10) Wash in distilled water and dehydrate rapidly in the ascending series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

Result	
PAS-positive substances	magenta red
Connective tissue	blue – green
Muscle, stratum corneum of	yellow – green
the epithelium, glia fibers and	
erythrocytes	





P.A.S. Pearse

PRODUCT AND APPLICATION

P.A.S. Pearse 04-132802

CODE

Minimum number of tests that can 100 be performed

Se perferined	
Completion time	60 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Not required

Application

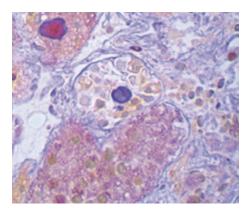
P.A.S. reaction particularly indicated for the pituitary gland for differentiating alpha cells from beta cells. The results are good on all tissues.

Method

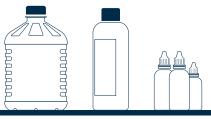
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash in bidistilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 15 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of solution C onto the section: leave to act for 2 minutes.
- 7) Drain the slide and, without washing, dispense 10 drops of reagent D onto the section: leave to act for 2 minutes.
- 8) Wash in distilled water.
- 9) Dispense 5 drops of solution E onto the section and add 5 drops of solution F: leave to act for 10 minutes.
- 10) Wash in distilled water.
- 11) Dispense 10 drops of reagent G onto the section: leave to act for 5 minutes.
- 12) Wash in distilled water.
- 13) Dehydrate rapidly in the ascending series of alcohols; xylene and balsam.

PITUITARY GLAND

Results



PAS-positive substances, alpha cell	magenta red
granules of the pituitary gland	
Beta cell granules of the pituitary	orange
gland, erythrocytes	
Gamma cell granules of pituitary	violet - purple
gland	



PRODUCT AND APPLICATION		CODE
P.A.S A Periodic Acid Schiff - Amy	lase	04-130803
Minimum number of tests that can be performed	100	
Completion time	60 minutes	

Completion time	60 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Not required

Application

Digestion on a histological section with an amylase solution followed by PAS reaction is indicated when you want to remove the glycogen so as to observe only the neutral epithelial mucins.

PAS/amylase reaction is the method of choice for evaluating the presence of glycogen in liver tissue on sections fixed in formalin and embedded in paraffin, and in muscle tissue on cryostat sections.

In both cases, the examination of adjacent sections, one of which has been treated with amylase, allows qualitative evaluation of the presence of glycogen.

Method

- 1) Bring the section to the distilled water.
- 2) Bring reagent A to room temperature.
- 3) Dispense 10 drops of reagent A: leave to act for 10 minutes at room temperature.
- 4) Wash the slide several times in distilled water.
- 5) Dispense 10 drops of reagent B onto the section: leave to act for 10 minutes.
- 6) Wash in distilled water.
- 7) Dispense 10 drops of reagent C onto the section: leave to act for 20 minutes.
- 8) Wash in distilled water.
- 9) Dispense 10 drops of solution D onto the section: leave to act for 2 minutes.
- 10) Drain the slide and, without washing, dispense 10 drops of reagent E onto the section: leave to act for 2 minutes.
- 11) Wash in distilled water.
- 12) Dispense 10 drops of reagent F onto the section: leave to act for 3 minutes.
- 13) Leave to develop in running water for 5 minutes.
- 14) Dehydrate in the ascending series of alcohols, xylene and balsam.

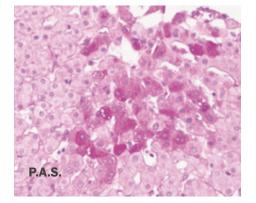
Result

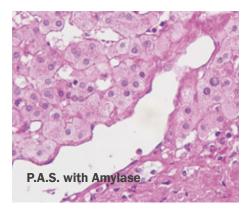
PAS-positive substances	magenta red
Nuclei	blue

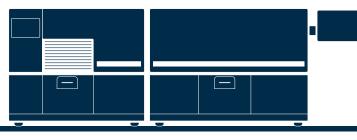
Results

P.A.S. - A

LIVER







Perls

PRODUCT AND APPLICATION

Perls method for ferric iron 04-180807

Minimum number of tests that can	72
be performed	
Completion time	35 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	50 ml vertical histology jar, graduated cylinder and glass
	rod

CODE

Application

Method indicated for viewing reactive ferric iron on tissue sections, blood smears and bone marrow smears.

Specificity - the Perls reaction does not show all the iron present in the tissue: iron bound to hemoglobin, malaria pigment, ferritin, pigments deriving from the use of acid formalin and ferrous iron does not react.

Method

METHOD FOR HISTOLOGICAL SECTIONS

- 1) Bring the section to the distilled water.
- 2) Transfer the entire contents of bottle A to a 50 ml Coplin jar. Add, in order, 30 ml of distilled water and 4 ml of reagent B. Stir briefly. Immerse the section for 20 minutes.
- 3) Wash thoroughly in distilled water.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 5 minutes.
- 5) Wash in distilled water.
- 6) Dehydrate by means of the ascending series of alcohols; xylene and balsam

METHOD FOR BLOOD SMEARS AND BONE MARROW SMEARS

- 1) Fix the previously dried smears in methanol for 3 minutes. Remove the slide and leave to dry.
- 2) Transfer the entire contents of bottle A to a 50 ml Coplin jar. Add, in order, 30 ml of distilled water and 4 ml of reagent B. Stir briefly. Immerse the section for 20 minutes.
- 3) Wash thoroughly in distilled water.
- 4) Dispense 10 drops of reagent C onto the smears: leave to act for 5 minutes.
- 5) Wash in distilled water.
- 6) Dry in air.

Result

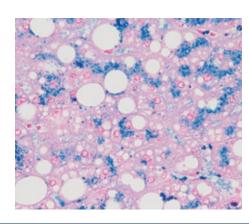
Re	eactive ferric iron	blue
Nu	Jclei	red

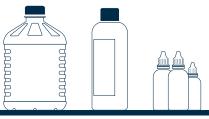
Notes:

Results

False positives may be caused by three easily identifiable factors:

- ferrocyanide-hydrochloric acid solution not freshly prepared;
- ferric ions contaminating the glassware and section stretching water (rust), use of metal instruments in contact with the solution (forceps etc.);
- asbestosis: asbestos, if present, can generate a positive reaction.





Perls - Van Gieson

Staining and mounting

PRODUCT AND APPLICATION		CODE
Perls - Van Gieson method for ferri	c iron and connective tissue	04-181807
Minimum number of tests that can be performed	72	
Completion time	35 minutes	
Shelf life	2 years	
Storage conditions	15-25°C	
Additional equipment	50 ml vertical histology jar, grad rod	duated cylinder and glass

Application

Method indicated for simultaneous highlighting of reactive ferric iron, collagen and connective tissue on tissue sections.

Method

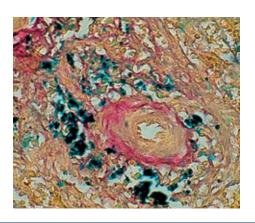
- 1) Bring the section to the distilled water.
- 2) Transfer the entire contents of bottle A to a 50 ml Coplin jar. Add, in order, 30 ml of distilled water and 4 ml of reagent B. Stir briefly. Immerse the section for 20 minutes.
- 3) Wash thoroughly in distilled water.
- 4) Dispense 10 drops of reagent C onto the section: leave to act for 10 minutes.
- 5) Wash in distilled water.
- 6) Dehydrate rapidly in the ascending series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

Result	
Reactive ferric iron	blue
Collagen	purple red
Cytoplasm, muscle, stratum cor- neum of the epithelium, glia and erythrocytes	yellow

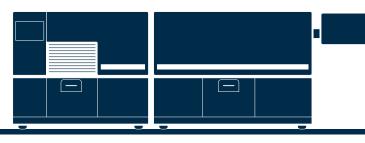
Notes:

False positives may be caused by three easily identifiable factors:

- ferrocyanide-hydrochloric acid solution not freshly prepared;
- ferric ions contaminating the glassware and section stretching water (rust), use of metal instruments in contact with the solution (forceps etc.);
- asbestosis: asbestos, if present, can generate a positive reaction.



Results



Picro Mallory Trichrome

PRODUCT AND APPLICATION

Picro Mallory Trichrome 04-021822

Minimum number of tests that can 100

be performed	
Completion time	40 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

CODE

Application

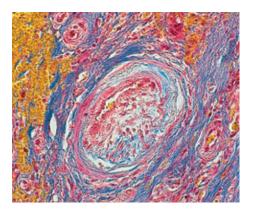
Trichrome stain recommended for connective sections.

Method

- 1) Bring section to distilled water.
- 2) Put on the section 5 drops of reagent A and 5 drops of reagent B: leave to act for 10 minutes.
- 3) Rinse in distilled water.
- 4) Blue 10 minutes in running tap water.
- 5) Put on the section 10 drops of reagent C: leave to act 2 minutes.
- 6) Rinse in distilled water.
- 7) Put on the section 10 drops of reagent D: leave to act 1 minute.
- 8) Rinse in distilled water.
- 9) Put on the section 10 drops of reagent E: leave to act 15 minutes.
- 10) Rinse in distilled water.
- 11) Put on the section 10 drops of reagent F: leave to act 1 minute.
- 12) Dehydrate rapidly through ascending alcohols, stop for 1 minute at the last absolute ethanol. Clear in xylene and mount.

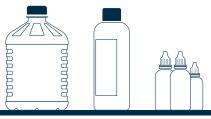
CONNECTIVE TISSUE

Results



Result

Nuclei:	dark brown
Collagen fibres:	dark blue
Ground substance of cartilage,	shades of blue
bone, mucus, basophil granules of	
hypophysis and amyloid:	
Neuroglia, axis cylinders and fibrin:	red
Acidophil granules of hypophysis:	orange
Myelin and erythrocytes:	Yellow
Elastic fibres:	pale pink to yellow



PRODUCT AND APPLICATION		CODE	P.T.A.H. Phosphotungstic Acid Hematoxylin
P.T.A.H. Phosphotungstic Acid Her	natoxylin	04-060802	
Minimum number of tests that can	100		
be performed			
Completion time	12 minutos Lovornight		

Completion time	13 minutes + overnight
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

The method, originally proposed for staining the glia, is now mainly indicated for differentiating smooth muscle from striated muscle (by staining the isotropic bands of myofibrils of the skeletal muscle); it is also one of the methods of choice for fibrin.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of solution A onto the section and add 5 drops of solution B: leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of solution C onto the section: leave to act for 5 minutes.
- 5) Wash in distilled water.
- 6) Pour the entire contents of the bottle of reagent D into the empty container attached to the pack, immerse the section in it and leave overnight.
- 7) Wash quickly in distilled water (3-4 seconds).
- 8) Dehydrate the section rapidly in the ascending series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

Result

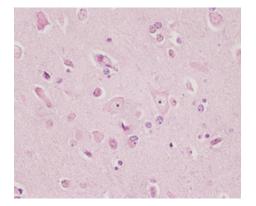
Nuclei, fibrin (most), myofibrils, astrocytes, certain elastic fibers, glia, myelin fibers Collagen, bone matrix, cartilage

dark blue

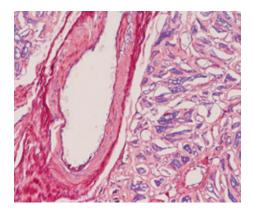
brick red in various shades

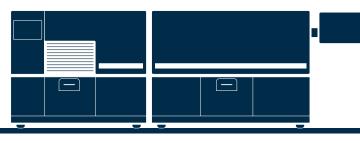
Results

BRAIN



BLOOD VESSEL





Rapid frozen sections

PRODUCT AND APPLICATION

Rapid frozen sections H&E staining kit 04-061010

Minimum number of tests that can 100 be performed Completion time Approx

Completion time	Approximately 3 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	100 ml jar for buffer preparation, jar for washing

CODE

Application

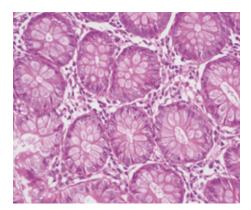
Rapid method for staining cryostat sections with a thickness of 6 microns.

Method

- 1) Preparation of the developing solution: dispense 10 drops of reagent B into a 100 ml jar. The kit is sufficient for the preparation of 100 developing solutions, we therefore recommended that you change the work solution frequently.
- 2) Place the section in the container labeled REAGENT A for 45 60 seconds.
- 3) Wash in tap water, 5 immersions.
- 4) Place in the developing solution, 5 immersions.
- 5) Wash in tap water, 5 immersions.
- 6) Place the section in the container labeled REAGENT C for 30 seconds.
- 7) 95° ethanol, 5 immersions.
- 8) 95° ethanol, 5 immersions.
- 9) Absolute ethanol, 5 immersions.
- 10) Absolute ethanol, 5 immersions.
- 11) Xylene, Bio-Clear or X-Free, 10 immersions.
- 12) Xylene, Bio-Clear or X-Free, 10 immersions.

COLON

Results



Result

Cytoplasm, connective tissue	pink in various shades and intensities
Nuclei	blue



Congo Red

Staining and mounting

PRODUCT AND APPLICATION	CODE	
Highman's Congo red		04-210822
Minimum number of tests that can	100	
be performed Completion time	35 minutes	
Shelf life	2 years	
Storage conditions	15-25°C	
Additional equipment	Not required	

Application

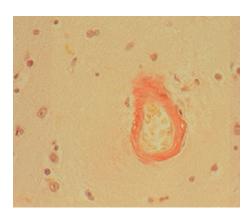
Method for highlighting amyloid on tissue sections.

Method

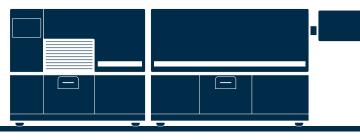
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 15 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 30 seconds.
- 5) Wash in running tap water for 5 minutes.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 2 minutes.
- 7) Dispense 10 drops of reagent D onto the section: leave to act for 5 minutes.
- 8) Leave to develop in tap water for 5 minutes.
- 9) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

Results

BLOOD VESSEL



Result brick red and birefringent in polarized light Amyloid substance blue



Sirius Red

PRODUCT AND APPLICATION

Sirius Red

04-210923

CODE

100
1 hour 15 minutes
2 years
15-25°C
Not required

Application

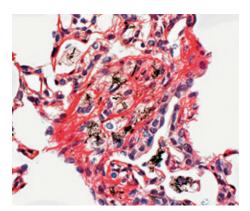
Method for highlighting amyloid in tissues fixed in formalin and embedded in paraffin.

Method

- 1) Bring the section to the distilled water.
- 2) Prepare the humid chamber and place the slide in it with the section facing up. Dispense 10 drops of reagent A onto the section, close the humid chamber and incubate in an oven at 60°C. Leave to act for 60-90 minutes.
- 3) Dispense 10 drops of reagent B onto the section for 1 2 minutes.
- 4) Drain the slide and dispense 10 drops of reagent C onto the section: leave to act for 1 - 2 minutes.
- 5) Dispense 10 drops of reagent D onto the section. Leave to act for 5 minutes.
- 6) Leave to develop in running water for 5 minutes.
- 7) Dehydrate in the ascending series of alcohols, xylene and balsam.

AMYLOID SUBSTANCE

Results



Result		
Amyloid substance	pink - red	
Nuclei	blue	



Picrosirius Red

Staining and mounting

PRODUCT AND APPLICATION		CODE	
Picrosirius Red		04-121873	
Minimum number of tests that can be performed	100		
Completion time	60 minutes		
Shelf life	2 years		
Storage conditions	15-25°C		
Additional equipment	Not required		

Application

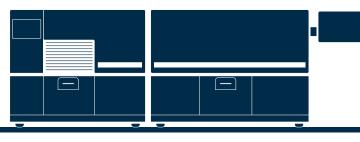
Method indicated for highlighting collagen fibers and bile pigments on tissue sections fixed in formalin and embedded in paraffin.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 50 minutes.
- 3) Wash briefly in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 2 minutes. Repeat twice.
- 5) Wash briefly in distilled water and drain the slide.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 3 minutes.
- 7) Leave to develop in tap water: 3 minutes.
- 8) Wash in distilled water and dehydrate rapidly by means of the ascending series of alcohols, leaving for 1 minute in the last absolute: xylene and balsam.

Result	
Bilirubin	green
Collagen fibers	red
Nuclei	blue
Erythrocytes	red

Results



Methenamine Silver

PRODUCT AND APPLICATION

Methenamine Silver P.A.S.M. 04-043822

Minimum number of tests that can 100

be performed	
Completion time	1 hour 15 minutes
Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Oven

CODE

Application

Method used for viewing argyrophilic elements and mucopolysaccharides (basal membranes, mycetes, bacteria, etc.) on tissue sections. It is the method of choice for studying the basal membrane in renal biopsy.

Method

- 1) Bring the sections to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 30 minutes.
- 3) Wash in distilled water.
- 4) Prepare the humid chamber and place the slide in it with the section facing up. Dispense 10 drops of reagent B into the small dish attached to the pack, add 10 drops of reagent C and 10 drops of reagent D, stir and place the solution thus obtained on the section: close the humid chamber and incubate in an oven at 60 °C. Leave to act for 30-40 minutes.
- 5) Remove the humid chamber from the oven, open the lid and check the tone of the impregnation: if the blackening is correct, leave the slide to cool for 5 minutes and then wash it in distilled water; if it is insufficient, incubate in the oven again and check every 5 minutes.
- 6) Dispense 10 drops of reagent E onto the section: leave to act for 1 minute.
- 7) Wash in distilled water.
- 8) Dispense 10 drops of reagent F onto the section: leave to act for 1 minute.
- 9) Wash in distilled water.
- 10) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

Result

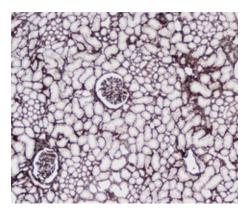
Results

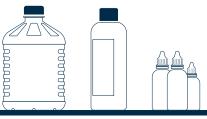
Basal membranes, glycogen, dish black of mycetes and bacteria

WARNINGS

As for all reactions involving silver salts, it is essential to use rigorously clean glassware and good-quality distilled or deionized water. Furthermore, do not bring metal instruments (forceps, etc.) into contact with reagents containing silver salts.

KIDNEY





PRODUCT AND APPLICATION		CODE	Van Gieson Trichrome
Van Gieson Trichrome		04-030802	
Minimum number of tests that can be performed	100		
Completion time	35 minutes		-
Shelf life	2 years		-
Storage conditions	15-25°C		-
Additional equipment	Not required		-

Application

Method of choice for connective tissue, particularly indicated for highlighting collagen fibers and differentiating them from connective tissue.

Method

Result Nuclei

Collagen fibers

Cytoplasm, smooth and striated

muscle, stratum corneum of the epithelium, glia and erythrocytes

- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of reagent A onto the section and add 5 drops of reagent B : leave to act for 10 minutes.
- 3) Leave to develop in tap water for 10 minutes.
- 4) Dispense 10 drops of solution C onto the section: leave to act for 10 minutes.
- 5) Wash quickly (2-3 seconds) in distilled water and dehydrate rapidly in the ascending
- series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

black

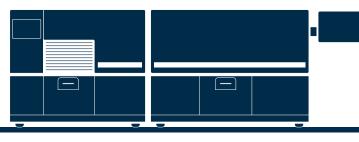
yellow

purple red

Results

CONNECTIVE TISSUE





Methyl Green Pyronin

PRODUCT AND APPLICATION

Methyl Green Pyronin 04-121812

CODE

Minimum number of tests that can 100

be performed	
Completion time	45 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

Method indicated for simultaneous viewing of DNA and RNA on histological sections. Particularly indicated for highlighting plasma cells and RNA in histological sections and cytological preparations.

Method

- 1) De-wax the slides and bring them to the 70° ethanol.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Drain the section and dispense 10 drops of reagent B onto it: leave to act for 15 minutes.
- 4) Drain the slide and dispense 10 drops of reagent C onto the section: leave to act for 3 minutes.
- 5) Wash the slides in running water for 10 minutes.
- 6) Wash in distilled water.
- 7) Dispense 10 drops of reagent D onto the section: leave to act for 7 minutes.
- 8) Wash quickly in distilled water and dry the slide first in filter paper, then in the air for 10 minutes.
- 9) Diaphanize by means of at least 2 immersions in xylene, balsam.

Result

DNA	pale green
RNA (plasma cells, nucleoli, blasts)	pink – red
Mast cell granules	blue

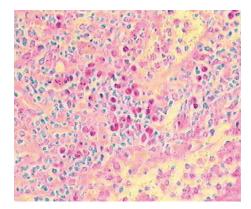


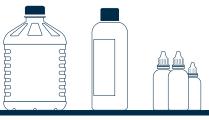
WARNINGS

- Do not use fixatives with a formaldehyde content of more than 10%: higher concentrations inhibit the amino groups of DNA.
- Do not use excessively acidic fixatives: they inhibit the reaction, causing hydrolysis.
- It is very important not to depolymerize the DNA at excessively high temperatures (impregnation in paraffin and, in particular, section stretching bath); the phosphoric groups of the DNA molecule thus move away from each other, reducing or eliminating the attachment sites of methyl green (pyroninophilia of DNA).

CONNECTIVE TISSUE

Results





PRODUCT AND APPLICATION		CODE	
Verhoeff		04-056802	
Minimum number of tests that can be performed	100		
Completion time	60 minutes		
Shelf life	2 years		
Storage conditions	15-25°C		

Application

Additional equipment

Method for demonstrating elastic fibers on histological sections, particularly indicated for vascular pathology.

Not required

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 30 minutes.
- 3) Wash in distilled water.
- 4) Differentiate in tap water.
- 5) Place the slide in the humid chamber and dispense 8 drops of reagent B + 4 drops of reagent C + 4 drops of reagent D onto the section. Leave to act for 25 minutes.
- 6) Wash in distilled water.
- 7) Differentiate with reagent E: 2 or 3 changes of 15 seconds each.
- 8) Wash thoroughly in distilled water.
- 9) Dispense 10 drops of reagent F onto the section: leave to act for 1 minute.
- 10) Wash in distilled water.
- 11) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

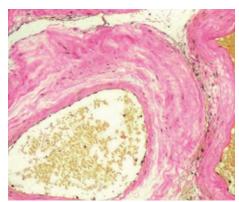
Result

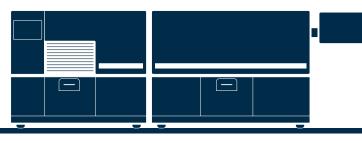
Elastic fibers and nuclei	black
Collagen	red
Other tissue elements	yellow

Results

Verhoeff

ARTERY





Von Kossa

PRODUCT AND APPLICATION

Von Kossa method for calcium 04-170801

 Minimum number of tests that can
 100

 be performed
 1

 Completion time
 1 hour 25 minutes

 Shelf life
 1 year

Shelf life	1 year
Storage conditions	2-8°C
Additional equipment	Not required

CODE

Application

Method indicated for viewing calcium ions on histological sections.

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash thoroughly in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act in the dark for 1 minutes.
- 5) Wash thoroughly in distilled water.
- 6) Dispense 10 drops of distilled water onto the section and add 10 drops of reagent C: leave to act for 5 minutes (until the silver salts turn black).
- 7) Wash in distilled water.
- 8) Dispense 10 drops of reagent D onto the section: leave to act for 5 minutes.
- 9) Wash in distilled water.
- 10) Dispense 10 drops of reagent E onto the section: leave to act for 5 minutes.
- 11) Wash in distilled water and dehydrate in the ascending series of alcohols; xylene and balsam.

BONE

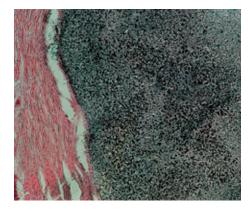
Results

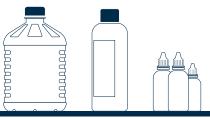
Result

Sites where calcium salts were black

present Nuclei

red





Warthin-Starry

Staining and mounting

PRODUCT AND APPLICATION		CODE
Warthin-Starry method for spiroch	etes	04-040903
Minimum number of tests that can be performed	40	
Completion time	1 hour 45 minutes	
Shelf life	1 year	
Storage conditions	2-8°C	

Additional equipment Oven, jar for buffer dilution, graduated pipette, glass rod

Application

Method for highlighting spirochetes.

Method

- 1) Bring the section to the distilled water.
- 2) Prepare the impregnating solution: pour 13 ml of distilled water into the container, then add 4.5 ml of reagent A and 20 drops of reagent B. Stir briefly with a glass rod previously washed in distilled water.
- 3) Place the section in the solution and incubate for 90 minutes at 60-70 °C.
- 4) Remove the container from the oven and leave to cool for 5 minutes.
- 5) While the impregnation reaction takes place, prepare the developing solution. Note: you are advised to carry out the indicated operations during the last 12 minutes of incubation started in step 3. Preheat one bottle C and one bottle D in an oven at 50 °C for 10 minutes.

Pour the entire contents of the two preheated bottles into the second container available for slides (beware of the temperature of the bottles – use protective gloves), stir briefly with a glass rod previously washed in distilled water and then pour in the entire contents of one bottle E and stir again.

- 6) Place the section in the developing solution you have just prepared and place in an oven at 50°C for 5 10 minutes.
- 7) Wash in hot running water for 2 minutes.
- 8) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

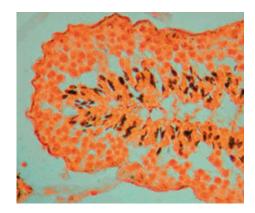
Result Spirochetes and other microorganisms black Background golden brown

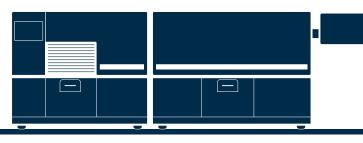
WARNINGS

- For washing, it is imperative to use top-quality distilled water.
- Do not use Poly-L-Lysine coated slides.
- Do not use metal objects (racks, forceps).



SPIROCHETES





Weigert - long method

PRODUCT AND APPLICATION

Additional equipment

Weigert for elastic fibers (long method) 04-050802

Histology jar with lid

CODE

Minimum number of tests that can100be performedCompletion timeOvernight + 25 minutesShelf life2 yearsStorage conditions15-25 °C

Application

Method indicated for demonstrating elastic fibers on histological sections.

Method

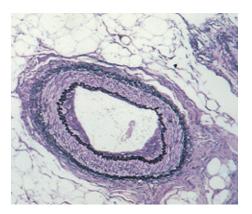
- 1) Bring the section to the distilled water.
- 2) Dispense 5 drops of solution A onto the section and add 5 drops of solution B: leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of solution C onto the section: leave to act for 5 minutes.
- 5) Wash in distilled water.
- 6) Pour the reagent D into a vertical histology jar, immerse the section in it and close firmly: leave to act overnight.

After use, in order to minimize evaporation of the ethanol, you are advised to return the solution to its original bottle.

- 7) Wash in distilled water.
- 8) Dispense 10 drops of solution E onto the section: leave to act for 10 minutes.
- 9) Wash in distilled water.
- 10) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

BLOOD VESSEL

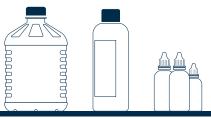
Results



Result

Elastic fibers

from dark blue to black



PRODUCT AND APPLICATION		CODE	Weigert - rapid method
Weigert for elastic fibers (rapid me	thod)	04-052812	
Minimum number of tests that can be performed	100		
Completion time	60 minutes		-
Shelf life	2 years		-
Storage conditions	15-25°C		-

Application

Method indicated for demonstrating elastic fibers on histological sections, particularly indicated for vascular pathology.

Graduated pipette

Method

- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of solution A onto the section: leave to act for 5 minutes.
- 3) Wash in distilled water.

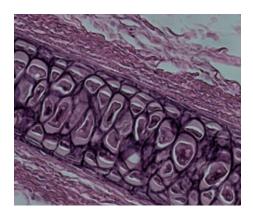
Additional equipment

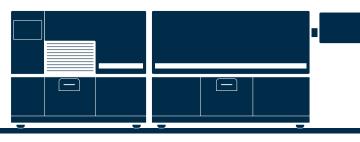
- 4) Prepare the humid chamber as follows: soak the disc of filter paper with 20 drops of reagent B, insert the slide in the humid chamber and dispense 10 drops of reagent C onto the section. Close the lid and incubate for 30 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 2 minutes.
- 7) Wash in running water for 5 minutes
- 8) Wash in distilled water.
- 9) Dispense 10 drops of reagent E onto the section: leave to act for 5 minutes.
- 10) Wash in distilled water.
- 11) Dehydrate by means of the ascending series of alcohols; xylene and balsam.

Result		
Elastic fibers	purple - brown	
Nuclei	red	

Results

ELASTIC FIBERS





Weigert Van Gieson long method

PRODUCT AND APPLICATION

CODE

• Weigert Van Gieson for elastic fibers and connective tissue(long method) 04-051802

Minimum number of tests that can	100
be performed	
Completion time	50 minutes + overnight
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Vertical histology jar with lid

Application

Combined method for viewing elastic fibers, connective tissue, collagen and nuclei on the same preparation.

Van Gieson trichrome is the most commonly used method in association with Weigert staining for elastic fibers.

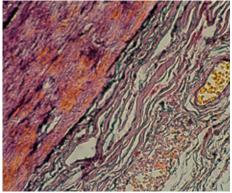
Method

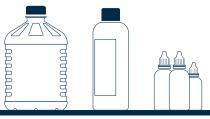
- 1) Bring the section to the distilled water.
- 2) Dispense 10 drops of solution A onto the section: leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Pour the reagent B into a vertical histology jar, immerse the section in it and close firmly: leave to act overnight. After use, you are advised to return the solution to its original bottle.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 10 minutes.
- 7) Wash in distilled water.
- 8) Dispense 5 drops of solution D onto the section and add 5 drops of solution E: leave to act for 10 minutes.
- 9) Leave to develop in tap water for 10 minutes.
- 10) Dispense 10 drops of solution F onto the section: leave to act for 7 minutes.
- 11) Wash quickly (2-3 seconds) in distilled water and dehydrate rapidly in the ascending series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

Result

Elastic fibers	purple - brown
Nuclei	black
Collagen	red, in various shades
Connective tissue, erythrocytes	yellow

CONNECTIVE TISSUE AND ELASTIC FIBERS Results





PRODUCT AND APPLICATION		CODE	Weigert Van Gieson rapid method
Weigert Van Gieson for elastic fibers	and connective tissue(rapid method)	04-053812	-
Minimum number of tests that can be performed	100		
Completion time	1 hour 20 minutes		-
Shelf life	2 years		-
Storage conditions	15-25°C		-

Application

Additional equipment

Combined method for viewing elastic fibers, connective tissue, collagen and nuclei on the same preparation.

Graduated pipette

Van Gieson trichrome is the most commonly used method in association with Weigert staining for elastic fibers.

Method

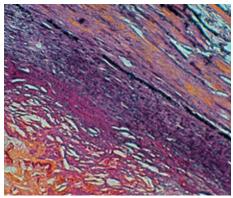
- 1) Bring the section to the distilled water. •
- 2) Dispense 10 drops of solution A onto the section: leave to act for 5 minutes.
- 3) Wash in distilled water.
- 4) Prepare the humid chamber as follows: soak the disc of filter paper with 20 drops of reagent B, insert the slide in the humid chamber and dispense 10 drops of reagent C onto the section. Close the lid and incubate for 30 minutes.
- 5) Wash in distilled water.
- 6) Dispense 10 drops of reagent D onto the section: leave to act for 2 minutes.
- 7) Wash in tap water for 5 minutes.
- 8) Wash in distilled water.
- 9) Dispense 5 drops of solution E onto the section and add 5 drops of solution F: leave to act for 10 minutes.
- 10) Leave to develop in tap water for 10 minutes.
- 11) Dispense 10 drops of solution G onto the section: leave to act for 10 minutes.
- 12) Wash guickly (2-3 seconds) in distilled water and dehydrate rapidly in the ascending series of alcohols, stopping for 1 minute in the last absolute; xylene and balsam.

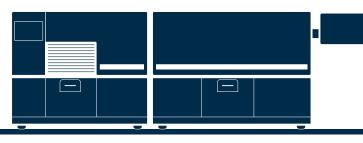
Result

Elastic fibers	purple - brown
Nuclei	black
Collagen	red, in various shades
Connective tissue, erythrocytes	yellow

Results

CONNECTIVE TISSUE AND ELASTIC FIBERS





Wilson's Disease Stain

PRODUCT AND APPLICATION

Wilson's Disease Stain method for copper 04-182807

Minimum number of tests that can 100 be performed

be performed	
Completion time	3 hours 15 minutes or overnight, depending on incuba-
	tion temperature
Shelf life	1 year
Storage conditions	15-25°C
Additional equipment	Graduated cylinder, glass rod, oven, 50 ml Coplin jar

CODE

Application

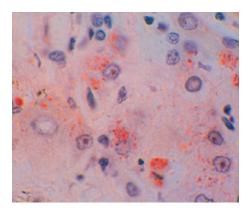
Method for viewing copper on sections of liver tissue.

Method

- 1) Bring the sections to the distilled water.
- 2) Prepare the Rhodanine solution: Pour 40 ml of distilled water into the 50 ml Coplin jar, add 1 ml of reagent A, 1 ml of reagent B and 20 drops of reagent C. Stir briefly with a glass rod.
- 3) Place the slide in the solution thus obtained and incubate in an oven at 56°C for 3 hours or at 37°C overnight.
- 4) Wash the slide in 3 changes of distilled water.
- 5) Dispense 10 drops of reagent D onto the section: leave to act for 3 minutes.
- 6) Leave to develop for 2 minutes in tap water.
- 7) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

LIVER

Results



Result

Nosun		
Copper	red – orange	
Nuclei	blue	



PRODUCT AND APPLICATION		CODE	
Ziehl-Neelsen for mycobacteria		04-110802	
Minimum number of tests that can be performed	100		
Completion time	50 minutes		
Shelf life	2 years		
Storage conditions	15-25°C		

Application

For highlighting pathogenic mycobacteria with particular regard to Koch's bacillus, on histological sections, sputum and culture smears, and appositions.

Not required

Method

- 1) Bring the sections to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash in distilled water.

Additional equipment

- 4) Dispense 10 drops of reagent B onto the section: leave to act for 30 minutes.
- 5) Wash in distilled water and dry the slide with filter paper.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 1 minute.
- 7) Wash in tap water for 3 minutes.
- 8) Dispense 10 drops of reagent D onto the section: leave to act for 2 minutes.
- 9) Wash in distilled water, develop for 5 minutes in running water.
- 10) Dehydrate by means of the ascending series of alcohols, xylene and balsam.

Result

Koch's bacillus and other acid-resistant elements

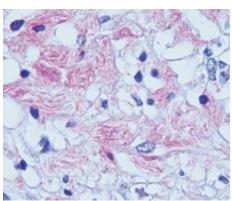
Nuclei

blue - violet

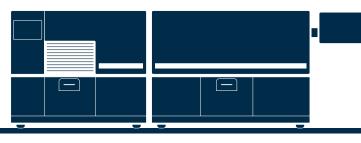
red

Ziehl-Neelsen

LUNG



Results



Ziehl-Neelsen Fite

PRODUCT AND APPLICATION

Ziehl-Neelsen Fite for mycobacteria 04-111802

CODE

Minimum number of tests that can 100 be performed

be performed	
Completion time	45 minutes
Shelf life	2 years
Storage conditions	15-25°C
Additional equipment	Not required

Application

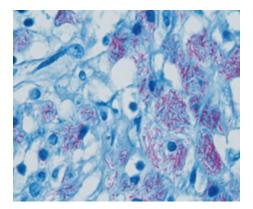
For highlighting pathogenic mycobacteria with particular regard to Koch's and Hansen's bacillus, on histological sections, sputum and culture smears, and appositions.

Method

- 1) Bring the sections to the distilled water.
- 2) Dispense 10 drops of reagent A onto the section: leave to act for 10 minutes.
- 3) Wash in distilled water.
- 4) Dispense 10 drops of reagent B onto the section: leave to act for 30 minutes.
- 5) Wash in distilled water and dry the slide with filter paper.
- 6) Dispense 10 drops of reagent C onto the section: leave to act for 1 minute.
- 7) Wash in tap water for 3 minutes.
- 8) Dispense 10 drops of reagent D onto the section: leave to act for 1 minute.
- 9) Wash in distilled water.
- 10) Dehydrate by means of the ascending series of alcohols, xylene and mounting medium.

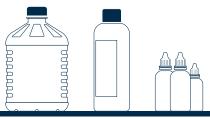
LUNG

Results



Result

Koch's bacillus, Hansen's bacillus	red – violet
and other acid-resistant elements	
Background contrast	light blue



Kits and solutions for enzyme histochemistry

Microscopic examination of sections of muscle biopsies is an essential tool in the diagnosis of neuromuscular disorders.

Any laboratory choosing to conduct histo-enzymatic tests on muscle biopsies encounters a series of problems:

- high toxicity of certain reagents
- solutions that are difficult and complex to standardize
- storage of solutions at -20°C
- poor reproducibility of final results.

To overcome all these problems, Bio-Optica has developed ready-to-use kits for enzyme histochemistry. Enzyme histochemistry kits eliminate the difficulties and risks associated with the preparation of stain solutions, thus ensuring reproducible results.

PRODUCT AND APPLICATION

CODE

 ATPase
 30-30125LY

 Method of choice for determining the types of muscle fibers. For use with cryostat sections of striated muscle with a thickness of 8 µm.

 The solutions, supplied in ready-to-use form, make it possible to perform the method on three serial sections of the sample simultaneously.

 For correct application of the method, it is necessary to use reagents

that have been brought to room temperature.

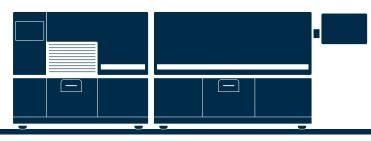
Result

•

Nuclei	blue		
Section 10.4 - preincubation at pH 10.4			
Type 1 fibers	white - beige		
Type 2A fibers	brown - black		
Type 2B fibers	brown - black		
Section 4.7 - preincubation at pH 4.7			
Type 1 fibers	brown		
Type 2A fibers	white - beige		
Type 2B fibers	brown - dark brown		
Section 4.3 - preincubation at pH 4.3			
Type 1 fibers	brown		
Type 2A fibers	white - beige		
Type 2B fibers	beige		



ATPase



Cytochrome C oxidase



PRODUCT AND APPLICATION

CODE

30-30115LY

CODE

30-30122LY

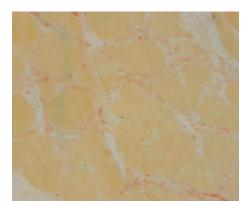
Cytochrome C oxidase Evaluation of Cytochrome C oxidase activity.

Result

.

Activity of Cytochrome C oxidase beige positive

Non-specific esterase



• Non-specific esterase

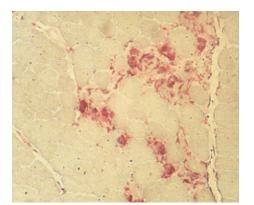
PRODUCT AND APPLICATION

Highlighting positive enzymatic activity of esterase in denervated fibers.

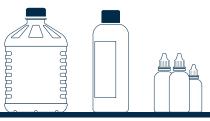
Result

Angular atrophic fibers	beige	
Muscle plaques	brown	
Lipofuscins	brown	
Lysosomal activity	brown	

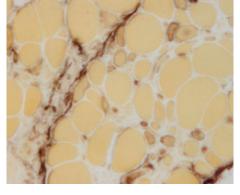
Acid phosphatase



PRODUCT AND APPLICATION		CODE
Acid phosphatase Highlighting enzymatic activity of ac		30-30118LY
Present in macrophages and lysoso regeneration.	mes; identifies necrosis and	
Result		
Positive enzymatic activity of acid phosphatase	red	
Background and nuclei	green	



Alkaline phosphatase		30-30121LY
Evaluating enzymatic activity of a	alkaline phosphatase.	
Useful for highlighting the sites o muscle biopsies.	of phagocytosis and inflammation ir	1
Result		
	black	
Result Positive enzymatic activity of alkaline phosphatase	black	



Alkaline phosphatase

PRODUCT AND APPLICATION

• Phosphofructokinase (PFK)

Highlighting enzymatic activity of phosphofructokinase (PFK), useful for determining whether glycogen storage disease depends on a deficiency of phosphofructokinase or on other enzymes involved in the metabolism of glycogen.

Result

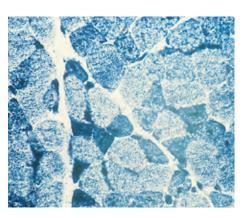
Positive PFK activity

dark blue

Phosphofructokinase (PFK)

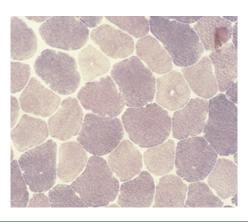
CODE

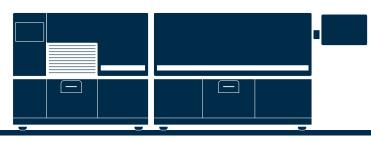
30-30117LY



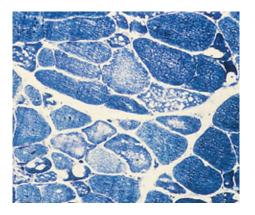
PRODUCT AND APPLICATION		CODE	
Phosphorylase		30-30123LY	
Highlighting enzymes belonging to the phosphorylase class involved in glycogenolysis.			
Result Phosphorylase enzyme activity	various shades of blue		

Phosphorylase





Myoadenylate deaminase



PRODUCT AND APPLICATION

PRODUCT AND APPLICATION

 Myoadenylate deaminase
 30-30116LY

 Highlighting of enzymatic activity of myoadenylate deaminase
 40-30116LY

 (AMPDA).
 30-30116LY

CODE

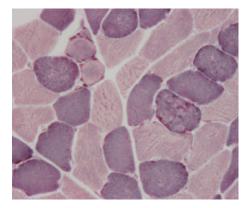
CODE

30-30113LY

Result

Positive enzymatic activity of blue myoadenylate deaminase

NADH diaphorase



NADH diaphorase Evaluation of NADH diaphorase activity. Staining useful for distinguishing type 1 and type 2 muscle fibers, often used in conjunction with ATPase evaluation.

Result

Succinate dehydrogenase



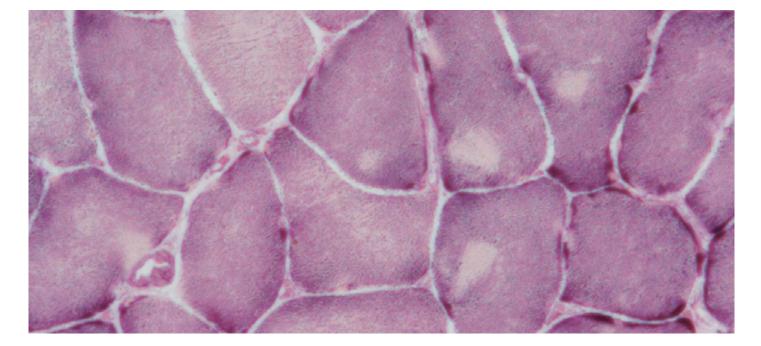
 PRODUCT AND APPLICATION
 CODE

 Succinate dehydrogenase
 30-30114LY

 Evaluation of enzymatic activity of succinate dehydrogenase (SDH) detected specifically in the mitochondria.
 Succinate dehydrogenase (SDH)

 Result
 Positive SDH activity
 gray – blue



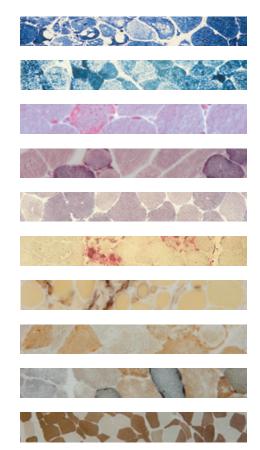


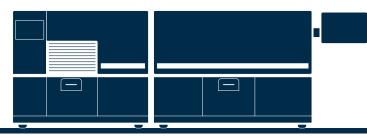
Fixatives for enzyme histochemistry

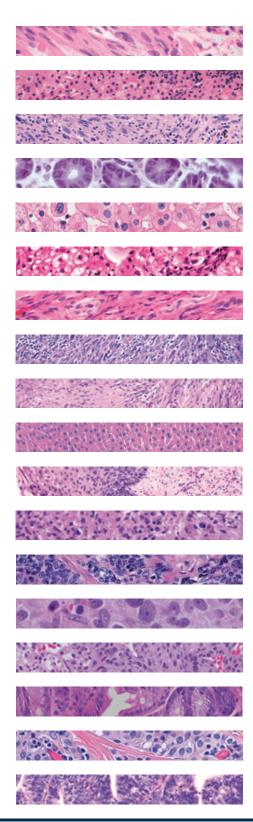
PRODUCT	PACK	DESCRIPTION	CODE
Backer fixative	1x500 ml	Facilitates staining with Oil Red O	30-30111
Fixative for acid phosphatase	1x100 ml	For use in enzyme histochemical staining for acid phosphatase	30-30120

Staining solutions for enzyme histochemistry

PRODUCT	PACK	DESCRIPTION	CODE
Oil Red O solution Buffered methyl green solution	1x100 ml 1x100 ml	Specific stain for lipids Green nuclear stain	30-30112 30-30119
Gomori trichrome solution	1x100 ml	Stain for the morphological study of muscle fiber and connective tissue	30-30110







Hematoxylin

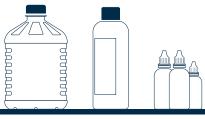
Bio-Optica provides operators with a complete range of nuclear stains; all solutions are stable and yield excellent cellular details.

PRODUCT AND DESCRIPTION	PACK	CODE
Mayer's hemalum	1x500 ml	05-M06002
Medium-intensity stain	1x1	05-06002/L
	1x2,5 I	05-06002E
Harris hematoxylin for histology	1x500 ml	05-M06004
Stain with a high concentration of hematoxylin	1x1	05-06004/L
	1x2,5 I	05-06004E
Carazzi's hemalum	1x500 ml	05-M06012
Lower concentration of hematoxylin	1x1	05-06012/L
Gill 1 hematoxylin	1x1	05-06013/L
Similar to Carazzi's hemalum		
Gill 2 hematoxylin	1x500 ml	05-M06014
Similar to Mayer's hemalum	1x1	05-06014/L
	1x2,5 I	05-06014E
Gill 3 hematoxylin	1x500 ml	05-M06015
Similar to Harris hematoxylin for histology	1x1	05-06015/L
	1x2,5 I	05-06015E
Weigert A ferric hematoxylin	1x150 ml	05-B06008/A
For trichrome staining	1x1	05-06008A/L
Weigert B ferric hematoxylin	1x150 ml	05-B06008/B
For trichrome staining	1x1	05-06008B/L
P.T.A.H. – Phosphotungstic Acid Hematoxylin	1x1	05-10017/L
For staining muscle fibers and nerves		

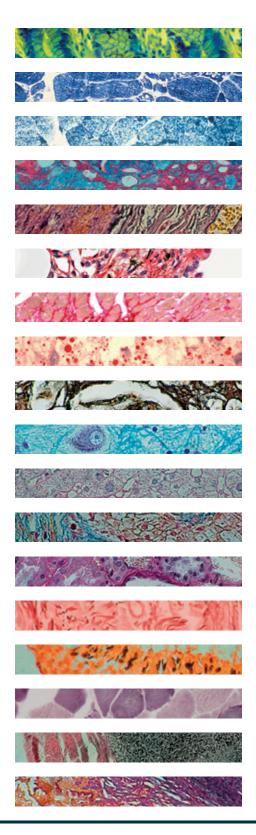
Histology solutions

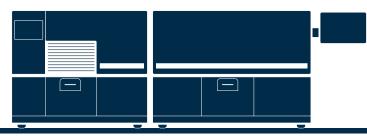
In addition to a number of important functional benefits (safety, time saving, reduced workload, easy estimation of costs per test), Bio-Optica's ready-to-use solutions yield excellent, reproducible results. These are essential characteristics for meeting the requirements of laboratories adhering to high quality standards.

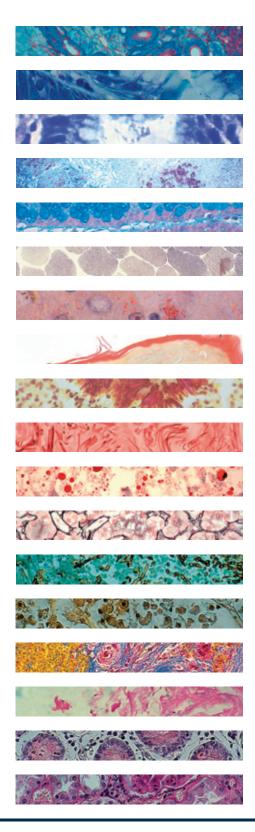
PRODUCT AND DESCRIPTION	PACK	CODE
Alcian Blue pH 1 Mowry	1x500 ml	05-M26005
Alcian Blue pH 2,5 Mowry	1x150 ml	05-B26003
	1x500 ml	05-M26003
	1x1	05-26003/L
Alcian Blue pH 3,1 Mowry	1x150 ml	05-B26002
Acridine Orange	1x150 ml	05-B07013
Orange G Pearse	1x150 ml	05-B29003
Auramine Rhodamine	1x150 ml	05-B07014
Masson Aniline Blue	1x150 ml	05-B10006
Cresyl Blue	1x150 ml	05-B14002
Lactophenol Blue	1x150 ml	05-B14004
New Methylene Blue	1x150 ml	05-B14003
Loeffer Methylene Blue	1x1 I	05-20009/L



	PRODUCT AND DESCRIPTION	PACK	CODE
•	Ziehl Neelsen Methylene Blue	1x150 ml	05-B20003
		1x1	05-20003/L
•	Toluidine Blue	1x150 ml	05-B23001
		1x500 ml	05-M23001
•	Mayer's Carmalum	1x150 ml	05-B07009
•	Kluwer Barrera Cresyl violet	1x150 ml	05-B16001
•	Moore Cresyl violet	1x150 ml	05-B14001
•	Vogt Cresyl violet	1x150 ml	05-B16002
•	Crystal violet	1x150 ml	05-B31001
•	Eosin Y aqueous solution 1%	1x500 ml	05-M10002
		1x1	05-10002/L
		1x2,5 l	05-10002E
•	Eosin Y alcoholic solution 0,5%	1x150 ml	05-B10003
		1x500 ml	05-M10003
		1x1	05-10003/L
		1x2,5 l	05-10003E
•	Eosin Y Plus alcoholic solution	1x500 ml	05-M11007
		1x1	05-11007/L
•	Eosin Phloxin solution	1x150 ml	05-B10020
		1x500 ml	05-M10020
		1x1	05-10020/L
٠	Erythrosine orange Dominici	1x500 ml	05-M12003
٠	Fuchsin, phenicated Ziehl	1x500 ml	05-M20007
		1x1	05-20007/L
٠	Paraldehyde Fuchsin Gridley	1x150 ml	05-B21002
٠	Fuchsin ponceau Masson	1x150 ml	05-B10005
٠	Giemsa Pappenhaim	1x500 ml	05-M12005
		1x1	05-12005/L
		1x2,5 I	05-12005E
٠	Luxol Fast Blu Kluwer Barrera	1x150 ml	05-B18001
٠	May Grunwald Pappenheim	1x500 ml	05-M12002
		1x1	05-12002/L
		1x2,5 l	05-12002E
٠	Mucicarmine solution	1x150 ml	05-B26001
٠	Nuclear Fast Red	1x150 ml	05-B07006
		1x500 ml	05-M07006
•	Orcein Shikata solution	1x150 ml	05-B11001
•	Picrofuchsin Van Gieson	1x150 ml	05-B10012
		1x500 ml	05-M10012
		1x1	05-10012/L
٠	Picro Mallory – Aniline blue	1x150 ml	05-B10016
٠	Picro Mallory – Orange G	1x150 ml	05-B10015
٠	Picro Mallory – Acid Fuchsin	1x150 ml	05-B10014
٠	Schiff's reagent Feulgen	1x500 ml	05-M07007
٠	Schiff's reagent Hotchkiss McManus	1x500 ml	05-M20001
٠	Congo Red Highman	1x150 ml	05-B31003
٠	Safranin solution	1x1	05-07008/L
٠	Sudan III Herxheimer	1x150 ml	05-B27001
٠	Sudan Black	1x150 ml	05-B27002
٠	Turk solution	1x150 ml	05-B25001
٠	Light green Goldner	1x500 ml	05-M10008



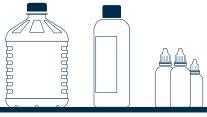




SCRIPTION	PACK	CODE	
1	1x500 ml	05-M07011	
ronin solution	1x150 ml	05-B15003	
arse	1x150 ml	05-B11004	
Resorcin fuchsin	1x150 ml	05-B11003	
	scription yronin solution arse Resorcin fuchsin	1x500 ml yronin solution 1x150 ml arse 1x150 ml	1x500 ml 05-M07011 yronin solution 1x150 ml 05-B15003 arse 1x150 ml 05-B11004

Reagents

PRODUCT AND DESCRIPTION	PACK	CODE
Acetic acid 5%	1x500 ml	05-M27030
Hydrochloric acid Hotchkiss McManus	1x500 ml	05-M05001
Formic acid 20%	1x500 ml	05-M27031
Phosphomolybdic acid Masson	1x500 ml	05-M05003
Oxalic acid Mallory	1x500 ml	05-M05006
Periodic acid 1%	1x500 ml	05-M05030
	1x1	05-05030/L
Picric acid aqueous solution 1.2%	1x500 ml	05-M05027
Picric acid alcoholic solution	1x500 ml	05-M05022
Sulfuric acid 0.5%	1x150 ml	05-B05007
Scott's water	1x500 ml	05-M05023
Mallory Glycerinated Albumin	1x150 ml	05-B04002
Alcohol Borax Mowry	1x150 ml	05-B05011
Gelatin glu	1x150 ml	05-B04004
Acid ethanol Heidenhain	1x500 ml	05-M05009
Acid ethanol Weigert	1x500 ml	05-M05014
Acid ethanol Ziehl Neelsen	1x1	05-05012/L
Lithium Carbonate solution	1x500 ml	05-M05016
Lugol solution	1x500 ml	05-M05015
	1x1	05-05015/L
Potassium Metabisulphite 0.5%	1x500 ml	05-M05017
Sodium Thiosulfate 5%	1x500 ml	05-M05019
Gram destaining solution	1x1	05-30010/L
Lugol's iodine	1x1	05-20006/L
Phosphate buffer pH 7 10x	1x1	05-05029/L
Ziehl-Neelsen destaining solution for	1x500 ml	05-M05112
Cryptosporidium		



Mount Quick Aqueous

Synthetic mounting medium, dissolved in water. For use when dehydration causes loss of staining characteristics. Compatible with hematoxylin-eosin.

PACK	CODE
9x30 ml	05-1740

Immersion oil for microscopes

Type A oil for microscopes.

PACK	CODE
1x30 ml	08-1730/A30
9x30 ml	08-1730/A270

BioMount HM

Synthetic mounting medium, dissolved in xylene, particularly indicated for use with the automatic coverslipper.

CODE
05-BMHM100
05-BMHM508

SafeMount

Synthetic mounting medium, dissolved in d-limonene, indicated for use with the automatic coverslipper.

PACK	CODE
1x100 ml	05-SM100

Coverslips

Cleaned, degreased, high-quality coverglasses; free from dust, dirt and cracks.

DIMENSIONS	PACK	CODE
24 x 40 mm 24 x 50 mm	1000 pcs. 1000 pcs.	09-2040 09-2050
24 x 60 mm	1000 pcs.	09-2060



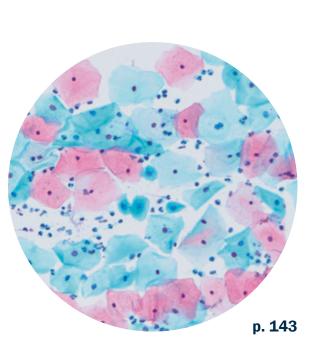




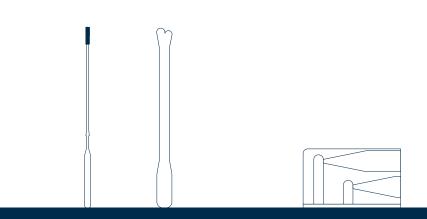
























Bio Brush

Cytological sampling brush with soft bristles made of interwoven nylon.

LENGTH	PACK	CODE
19 cm	9 cases of 20 pcs.	14-360
19 cm	108 cases of 20 pcs.	14-370
19 cm	500 pcs.	14-365

Ayre's spatulas

Wooden spatulas with no sharp edges for cytological sampling.

LENGTH	PACK	CODE
17,5 cm	400 pcs.	14-300

Dual cyto cuvettes

Centrifugation cuvettes with dual chamber.

PRODUCT	PACK	CODE
Medium absorption	500 pcs.	14-080
High absorption	500 pcs.	14-070

Fixatives

	PRODUCT AND DESCRIPTION	PACK	CODE
•	Cy-Fix Fixative for liquid-based cytology	54x25 ml 1x1 l 54x05 ml (colorlocs)	05-01C50P 05-01C50L
•	Cy-FixM Cytology fixative for mucus-rich samples	54x25 ml (colorless) 54x25 ml 1x1 l	05-01C50PN 05-01C51P 05-01C51L
•	Bio-fix Spray fixative for vaginal cytology	4x200 ml	05-X200
•	Saccomanno's Fixative Fixative for samples with mucus	1x1 I	05-01043/L
•	SaveCyt-U Fixative for urine	8 Transport bags with 3 x 40 ml 30 boxes with 3 x 40 ml	05-CS7212 05-CS7213

Bio-Agar for embedding cytological samples

Aqueous gel for embedding cytological samples, encapsulates and retains cells during processing. Useful for processing centrifuged cells and fragile biopsies.

PRODUCT	CODE
15x10 ml	05-9803S



Cytology

Papanicolaou staining solutions

Fast staining, bright colors and excellent cellular details. **The solutions are methanol-free.**

	PRODUCT	PACK	CODE
•	Papanicolaou Harris hematoxylin	1x500 ml	05-12011
		1x1	05-12011/L
		1x2,5 I	05-12011E
•	Papanicolaou OG6	1x500 ml	05-12013
		1x1	05-12013/L
		1x2,5 I	05-12013E
•	Papanicolaou EA50	1x500 ml	05-12019
		1x1	05-12019/L
		1x2,5 I	05-12019E
•	Papanicolaou EA65	1x500 ml	05-12017
		1x1	05-12017/L
		1x2,5 I	05-12017E
٠	Papanicolaou EA 31	1x500 ml	05-12015
•	Orange II Papanicolaou	1x500 ml	05-12014

Fast Pap

Papanicolaou staining in less than 3 minutes; for all types of cytological samples.

PRODUCT	CODE
For approximately 500 slides	05-12055

Isaach Wurch

Also known as "Fast Papanicolaou". The method involves only two stains, one nuclear and one cytoplasmic.

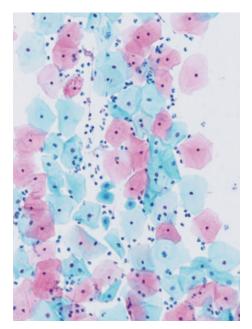
	PRODUCT	PACK	CODE
•	IWA - Isaach Wurch nuclear stain	1x1	05-12020/L
•	IW3 – Isaach Wurch cytoplasmic stain	1x1	05-12021/L

May Grünwald Giemsa solutions

Ready-to-use solutions for the differentiation of cellular elements in blood smears, spleen tissue samples, lymph node tissue and bone marrow biopsies.

	PRODUCT	PACK	CODE
•	May Grünwald	1x500 ml	05-M12002
		1x1	05-12002/L
		1x2,5 I	05-12002E
٠	Giemsa	1x500 ml	05-M12005
		1x1	05-12005/L
		1x2,5	05-12005E







May Grünwald Giemsa kit

	PRODUCT AND APPLICATION		CODE	
•	May Grünwald Giemsa kit for smea	ars 04-080	802	
	Minimum number of tests that can be performed	50 preparations		
	Completion time	35 minutes		
	Shelf life	2 years		
	Storage conditions	15-25°C		
	Additional equipment	1000 ml calibrated flask, 100 ml graduated 100 ml histology jar	d cylinder,	

Application

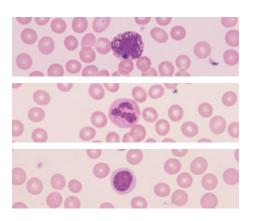
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For differential staining of cellular elements in blood smears, and spleen, lymph node and bone marrow tissue samples.

Method

- 1) Pour 100 ml of reagent B (buffer concentrated solution) into a 1000 ml calibrated flask and top up to the required volume with tap water (buffer - work solution). Keep the two buffer solutions at 4° - 6° centigrade.
- 2) Dispense 10 drops of reagent A onto the slide; leave to act for 5 minutes. Note: Where considered appropriate, the above step can be performed by working in the jar without making any change to the times (in this case the reagent must be recovered).
- 3) Wash in running water for 1 minute.
- 4) Pour 10 ml of solution C into a cylinder containing 90 ml of buffer solution B (work solution), pour the mixture into a vertical histology jar and immerse the slide in it for 15 minutes.
- 5) Wash in running water for 1 2 minutes.
- 6) Wash the slide first in filter paper, then in the air for 5 minutes.

Results



Result

Nosun	
Nuclei	violet red, pink
Basophilic cytoplasm	blue
Acidophilic cytoplasm	light red – pink
Polychromatic cytoplasm	gray – violet
Acidophilic granules	orange
Neutrophilic granules	brown – pink
Basophilic granules	dark violet
Azurophilic granules	purple – violet



MGG Quick Stain

PRODUCT AND APPLICATION		CODE
MGG Quick Stain		04-090805
Minimum number of tests that can be performed	100	
Completion time	20 seconds	
Shelf life	2 years	
Storage conditions	15-25°C	
Additional equipment	Not required	

Application

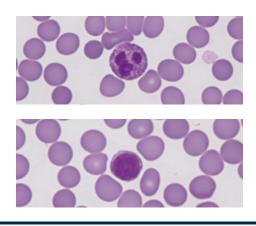
.

Rapid method for differential staining of formed blood elements and other air-dried cellular smears.

Method

- 1) Dry the smear in air.
- 2) Immerse the slide 5 times for 1 second in solution A. After each immersion, wait a moment for the excess liquid to drain off.
- 3) Immerse the slide 5 times for 1 second in solution B. After each immersion, wait a moment for the excess liquid to drain off.
- 4) Immerse the slide 3-5 times for 1 second in the solution C. After each immersion, wait a moment for the excess liquid to drain off.
- 5) Wash in tap water.
- 6) Dry in the air (do not use heat sources, ovens or plates).

Results



Result The col

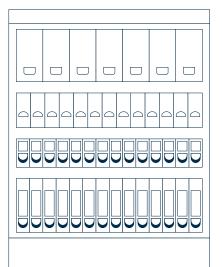
The colors and details are superimposable on those of May Grunwald Giemsa standard staining

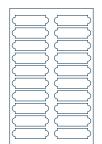














High-capacity filing cabinets

Painted steel filing cabinets with blue epoxy powder coating, electrostatically applied, without solvents for environmental integrity, resistant to common chemical aggression. Each drawer is mounted on sliding guides, thus providing access to the entire surface area.

Its interior is equipped with plastic trays (code 03-C28N) for more effective archiving of both slides and embedded blocks.

They are equipped with central locking, available in three versions:

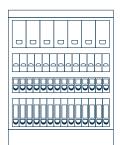
- Lock with security cylinder, including anti-tip system (only possible to open one drawer at a time)
- Code lock: uses a numerical combination in place of a key
- Remote lock: electronic system with manual remote controls







PRODUCT	CAPACITY	DRAWERS	DIMENSIONS	WEIGHT	CODE
PRODUCI		DRAWERS			CODE
	(nr. DISHES)		(1023x725xh)	KG	
For slides	67200 (140)	5	700 mm	150	03-V77000B
	94080 (196)	7	1000 mm	196	03-V109000B
	134400 (280)	10	1325 mm	267	03-V155000B
	147840 (308)	11	1450 mm	292	03-V171000B
	161280 (336)	12	1625 mm	300	03-V186500B
For cassettes	26880 (336)	12	1000 mm	274	03-B34000B
	31360 (392)	14	1150 mm	316	03-B39650B
	35840 (448)	16	1325 mm	351	03-B45320B
	40320 (504)	18	1450 mm	402	03-B51000B
	44800 (560)	20	1625 mm	447	03-B56600B
For cassettes	22400 (280)	5	700 mm	150	03-V77000B-2
(trays stacked)	31360 (392)	7	1000 mm	196	03-V109000B-2
	44800 (560)	10	1325 mm	267	03-V155000B-2
	49280 (616)	11	1450 mm	292	03-V171000B-2
	53760 (672)	12	1625 mm	300	03-V186500B-2
	44800	14	1450 mm	338	03-V92B23B-2
For slides and cassettes	80640 S	14	1450 mm	338	03-V92B23B
	17920 C	(S6 and C8)			
	80640 S	16	1550 mm	400	03-V80B22B
	22400 C	(S6 and C10)			

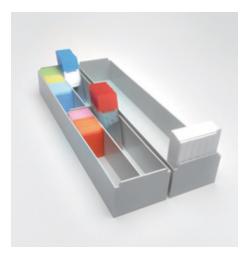




Wheeled filing cabinets

Archives for slides or blocks equipped with wheels and handles for transport. The top of the filing cabinet is equipped with a blue grooved mat with containment lip so that trays of slides can be placed on it without slipping and falling in transit. There are also three different types of lock to choose from for these filing cabinets:

- Key lock
- Code lock
- Remote lock



cassettes	3840 cassettes	4 for cassettes)	120	304/123/1000	TOO	03-1-00-0
For slides and	34560 slides	10 (6 for slides and	120	564x725x1000	168	03-V40B4B
For slides	51840	9	108	564x725x1000	159	03-V60480B
For cassettes	11520	12	144	564x725x1000	188	03-B13440B
					(EMPTY)	
PRODUCT	CAPACITY	DRAVERS	DISHES	DIMENSIONS MM	WEIGHT KG	CODE

Accessories for high-capacity filing cabinets

PRODUCT	CODE
Tray for slides and embedded blocks	03-C28N
Tray slides and cassettes for large samples	03-C28S
Steel base for filing cabinets, designed for use with pallet trucks	03-90320120
Separation spring - 4 pcs	03-500-MDL
Key lock	03-820.002
Code lock	03-820.011
Remote lock for standard filing cabinets	03-ER820013
Mobile remote lock for wheeled filing cabinets	03-ER820019



Modular filing cabinets

Istoglass - Istobloc

Modular systems for filing slides and paraffinembedded preparations.

The Istoglass modules (for slides) and Istobloc modules (for cassettes) are made entirely of white enameled metal.

They consist of sliding drawers fitted on guides. Each block of lstoglass/lstobloc modules requires completion with a base and top.

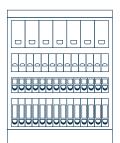
The special 7-drawer version for large slides or super mega cassettes retains the same modular form.

The spacer spring is recommended for keeping the slides in a vertical position with the correct spacing between them.



Characteristics

Dimensions (W x D x H):	lstoglass - 490 x 490 x 140 mm
	lstobloc - 490 x 490 x 90 mm
Weight per module:	13 kg empty, approximately 20 kg with cassettes,
	approximately 40 kg with slides
Capacity per module:	Istoglass - up to 5000 slides
	Istobloc - up to 860 cassettes or 540 rings
Recommended stacking of modules:	Up to 10 Istoglass
	15 Istobloc
Number of drawers per module:	14
PRODUCT	CODE
Istoglass for slides	03-5000-14
Istobloc for cassettes	03-B900
Istoglass with 7 drawers for large samples	03-7000
Base	03-5000-BA
Тор	03-5000-CO
Spacer spring	03-5000-MD



PRODUCT		CODE
Base		03-5000-BA
Тор		03-5000-C0
Metal structure		03-COLOR13
Plastic drawer	white with dividers for slides	03-CA7100S
	orange with dividers for slides	03-CA7110S
	light blue with dividers for slides	03-CA7120S
	yellow with dividers for slides	03-CA7130S
	lilac with dividers for slides	03-CA7140S
	pink with dividers for slides	03-CA7150S
	green with dividers for slides	03-CA7160S
	gray with dividers for slides	03-CA7180S
	white	03-CA7100
	orange	03-CA7110
	blue	03-CA7120
	yellow	03-CA7130
	lilac	03-CA7140
	pink	03-CA7150
	green	03-CA7160
	gray	03-CA7180
Colorteca with 13 drawers	blue	03-COLOR13/B
	gray	03-COLOR13/G
	lilac	03-COLOR13/L
	orange	03-COLOR13/0
	pink	03-COLOR13/P
	green	03-COLOR13/V
	white	03-COLOR13/W
	yellow	03-COLOR13/Y

Colorteca

Modular system for filing slides and paraffinembedded preparations.

The plastic drawers are specifically designed to contain both slides and embedded preparations.

The drawers are available in 8 different colors, which can easily be associated with the colors of the slides or blocks stored in them.

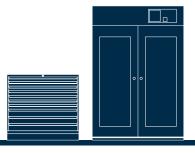
Each module consists of 13 drawers and each drawer can contain approximately 330 slides or 48 blocks or 24 rings.

The external dimensions of each module are the same as those of the Istoglass modules (code 03- 5000-14) and Istobloc modules (code 03- B900); this means you can stack Colorteca on top of an existing filing cabinet.









Bio - Optica



Bio Block

Modular plastic 8-drawer filing cabinet for paraffin-embedded preparations (cassettes or rings). Each drawer has seven compartments. The total capacity of one Bio Block is approximately 2,250 cassettes. Bio Block is outstandingly modular thanks to its handy fastening system, which makes it possible to add modules both vertically and horizontally.

240x300x400 mm	1 pc	03 3000	
240x300x400 mm	1 pc.	03-3000	

Cartoglass - Cartoblock

Modular systems in strong, lightweight cardboard, which are easy to transport even when completely filled.

The Cartoglass modules (for slides) and Cartobloc modules (for cassettes) are equipped with internal partitions, also made of cardboard, so as to create 36 compartments in the Cartoglass module and 16 compartments in the Cartobloc module.

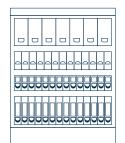
PRODUCT	CAPACITY PER MODULE	DIMENSIONS	PACK	CODE
Cartoglass Cartoblock	3000 slides 320 cassettes 220 rings	290x400x80 mm 290x400x45 mm	10 pcs. 10 pcs.	03-4015-BA 03-4010-BC
Тор	B	290x400x15 mm	10 pcs.	03-4020-B0



Plastic slide boxes

Stackable, made of shockproof material. Supplied complete with record form for the classification of preparations.

PRODUCT	DIMENSIONS	PACK	CODE
25 slides	98x83x38 mm	1 pc.	44-13071
50 slides	230x97x35 mm	1 pc.	44-13072
100 slides	230x180x35 mm	1 pc.	44-13073





Cardboard slide trays

Trays for classifying and filing standard size slides (25x75 mm or 26x76 mm).

PRODUCT	PACK	DIMENSIONS	CODE
1 slide with lid 2 slides with lid	1 pc. 1 pc.	102x45 mm 102x94 mm	09-0011 09-0002
3 slides with lid	1 pc.	102x105 mm	09-0003
6 slides with lid	1 pc.	213x102 mm	09-0006
10 slides with lid	1 pc.	342x102 mm	09-0010
20 slides	1 pc.	342x205 mm	09-0000
20 slides with dividers	1 pc.	342x205 mm	09-0020
20 slides with lid	1 pc.	342x205 mm	09-0001
20 slides with dividers and lid	1 pc.	342x205 mm	09-0023

Plastic slide trays

Trays for classifying and filing standard size slides (25x75 mm or 26x76 mm).

PRODUCT	PACK	DIMENSIONS	CODE
10 slides	40 pcs.	95x340 mm	44-13080
20 slides	20 pcs.	190x340 mm	44-13081
40 slides	10 pcs.	395x340 mm	44-13082
20 slides with lid	1 pc.	190x290 mm	09-57620

Slide envelope

Polystyrene, capacity 4/8 slides.

PACK	DIMENSIONS	CODE	
100 pcs.	150x110 mm	14-990	

Slide mailers

Made of shock-proof plastic.

PRODUCT	PACK	DIMENSIONS	CODE	
With press cap x5 slides	50 pcs.	28x82x16 mm	09-000530	
With screw cap x5-10 slides	10 pcs.	ø 40xh 90 mm	44-13061	
Snap-on x1 slide	500 pcs.	50x100x6 mm	44-13031	
Snap-on x2 slides	500 pcs.	73x85x6 mm	44-13041	
Snap-on x3 slides	100 pcs.	100x84x6 mm	44-13051	











Safety cabinets with extractor system

Cabinets with extractor system, designed for storing histological samples preserved in formalin, or storing chemicals and solvents.

Construction features

- Electrogalvanized steel structure
- Three tray-type shelves, height-adjustable
- Leaf doors made of safety glass
- Control panel with soft-touch keypad for setting the desired operating parameters

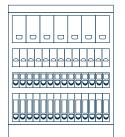
Extractor system

- Non-sparking extractor
- Alumina pellet filters for formaldehyde
- Manifold for connection to central
 extractor systems

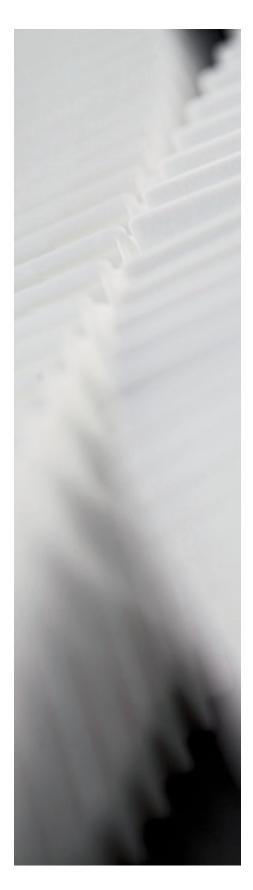




PRODUCT	EXTERNAL DIMENSIONS	INTERNAL DIMENSIONS	CODE
Cabinet 700 Cabinet 1000	700 x 550 x 1900 mm 1000 x 550 x 1900 mm	680x490x1580 mm 980x490x1580 mm	50-070-601 50-100-601
Cabinet 1200	1200 x 550 x 1900 mm	1180x490x1580 mm	50-120-601
ACCESSORIES			CODE
Formalin filter			50-F001
Solvent filter			50-F002
HEPA filter			50-F006
Palletizable plinth			50-600-053







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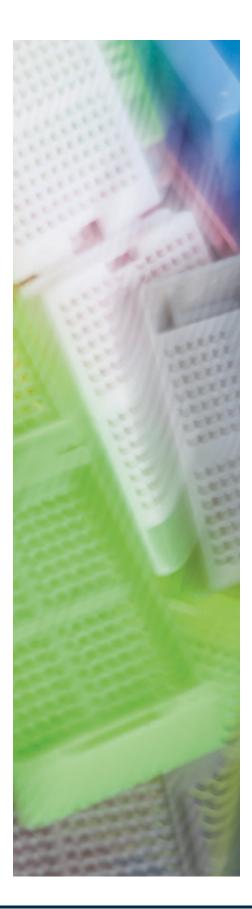
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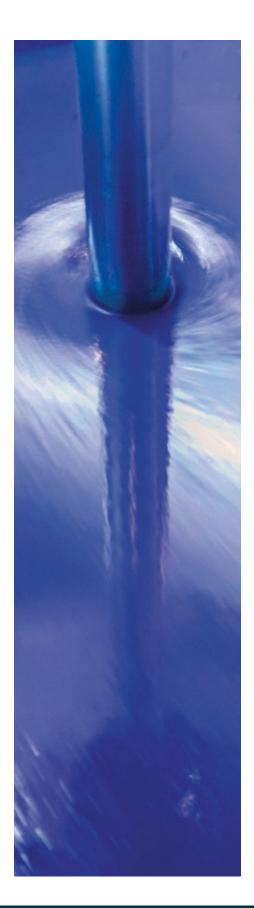
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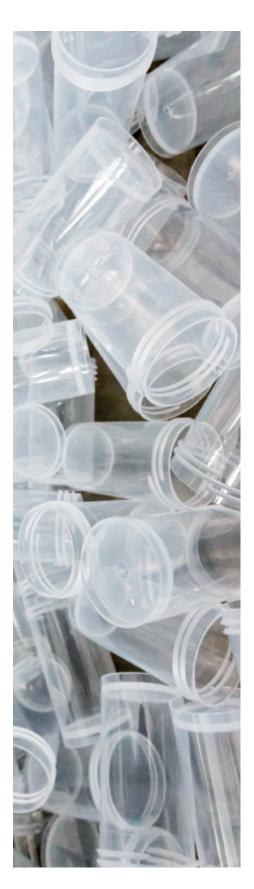
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