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**Improving Pathology** 

**GENERAL CATALOGUE** 



## **Improving Pathology**

#### Mission

Proactively working with customers through continuous research aimed at innovation, assuring the compliance with strict quality standards.

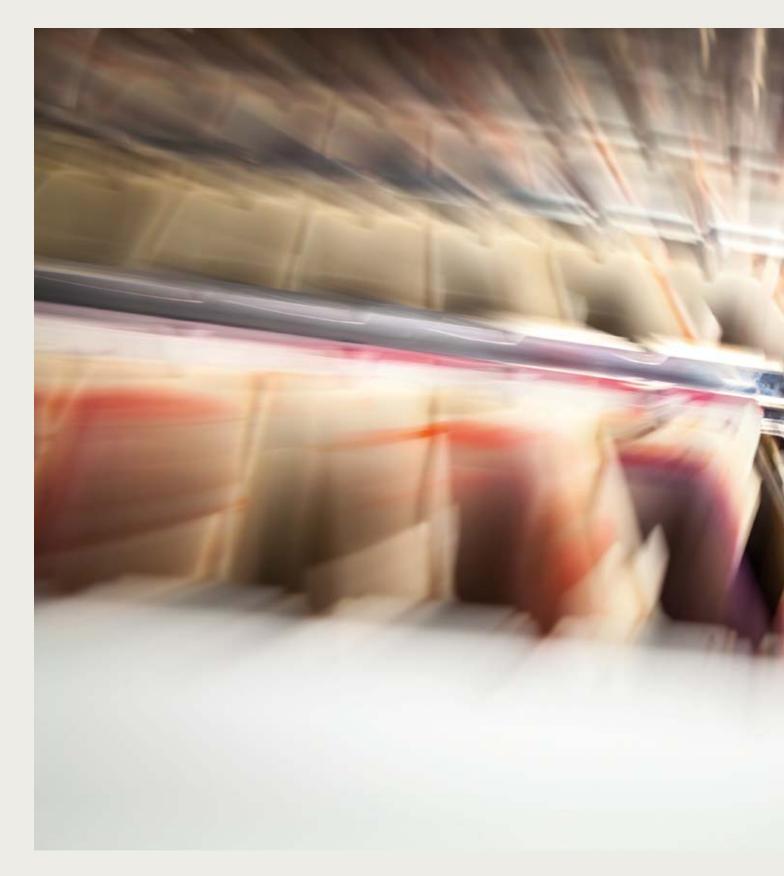
#### Vision

Guaranteeing excellence by offering advanced products that comply with the highest standards of anatomical pathology laboratories.

#### Company

Bio-Optica was established in Milan in 1977. It is the first Italian company in the field of cyto/histopathology. Its headquarters are located in Milan, and its two production facilities are located in Peschiera Borromeo (instruments) and Bologna (reagents). Bio-Optica has experienced a steady and regular growth over time. Nowadays it is a solid, industry-leading brand with 45 employees and 14 national agents, as well as a distribution network covering more than 60 countries.





## Index

### **HISTOLOGY**

_p. 8	Fixation	
_p. 11	Decalcification	
_p. 12	Processing	_
_p. 22	Embedding	1000
_p. 26	Microtomy	
_p. 32	Staining	$p \sim r$
_p. 77	Coverglassing	8: <b>/</b>
	CYTOLOGY	
_p. 82	Cytocentrifuge	· Male
_p. 83	Fixatives	114
_p. 84	Cytological collection	the second
_p. 85	Staining solutions and kits	TB
	AUTOPSY - DISSECTING	120
_p. 90	Aspirated hoods	1.000
_p. 93	Autopsy tables	
_p. 94	Instruments	-
_p. 97	Autopsy saw	ALT DE
_p. 98	Accessories	-
	STORAGE	100
_p. 102	Slide containers	1
_p. 104	Modular archives	
_p. 107	Large archives	
	SECURITY	
_p. 112	Aspirated cabinets	
_p. 113	Hood and bench	
_p. 115	Protectives for lab	1
	INDEX	1
_p. 116	Analytical index	1



# Bio - Optica



## Histology

_p. 8	Fixation
_p. 11	Decalcification
_p. 12	Processing
_p. 22	Embedding
_p. 26	Microtomy
_p. 32	Staining
_p. 77	Coverglassing





#### **FIXATION**

Bio-Optica produces a full range of fixatives suitable for any requirements and types of specimen.

#### Formalin ready to use

	PRODUCT	PACKAGING	CODE
•	Formalin 10% solution	4x 2,5	05-01011Q
	acetate buffered	240x 2,5 I	05-01011Q-X60
		1x20	05-K01011
		24x20 I	05-K01011-X24
•	Formalin 10% solution	4x2,5 I	05-01005Q
	neutral buffered	240x2,5 I	05-01005Q-X60
		1x10	05-K01009
		40x10	05-K01009-X40
		1x20 I	05-K01004
		24x20 I	05-K01004-X24
	With tap	1x10	05-K01009R
		1x20 I	05-K01004R
•	Formalin 10% solution	4x2,5 I	05-01012Q
	pH 7,2 - 7,4 buffered	240x2,5 I	05-01012Q-X60
		1x10	05-K01022
		40x10 I	05-K01022-X40
		1x20 I	05-K01012
		24x20 I	05-K01012-X24
•	Formalin zinc saline	4x2,5 l	05-01052Q
		240x2,5 I	05-01052Q-X60
		1x10	05-K01052
٠	Formalin 10% saline	4x2,5 I	05-01020Q
		240x2,5 l	05-01020Q-X60

#### Formalin concentrate

	PRODUCT	PACKAGING	CODE
•	Formaldehyde 30% w/v	1x20 I	05-K01002
•	Formaldehyde 38-40% w/v	4x2,5 l	05-01007Q
		240x2,5 I	05-01007Q-X60
		1x20 I	05-K01007
		24x20 I	05-K01007-X24
•	Formalin solution neutral	4x2,5 I	05-01006Q
	buffered concentrate	240x2,5 I	05-01006Q-X60
		1x10 I	05-K01004/CO
		40x10 I	05-K01004/C0X40

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#### 10% Neutral buffered formalin in prefilled containers

Universal fixative in labelled/screen-printed sealed containers, in compliance with current regulations on the classification, labelling and packaging of dangerous substances. Prefilled containers are perfect for ensuring operator safety and proper histological specimen transportation.

PACKAGING	CAPACITY	CAP	CODE	CODE with TIMESTRIP
80x5 ml	10 ml	Screw cap	05-01P05	
640x5 ml	10 ml	Screw cap	05-01P05-X8	
54x9 ml	35 ml	Screw cap	05-01V15P	
540x9 ml	35 ml	Screw cap	05-01V15P-X10	
54x18 ml	55 ml	Screw cap	05-01V30P	05-01V30PT
540x18 ml	55 ml	Screw cap	05-01V30P-X10	05-01V30PT-X10
54x28 ml	55 ml	Screw cap	05-01V60P	05-01V60PT
540x28 ml	55 ml	Screw cap	05-01V60P-X10	05-01V60PT-X10
24x75 ml	125 ml	Screw cap	05-01V125P	05-01V125PT
192x75 ml	125 ml	Screw cap	05-01V125P-X8	05-01V125PT-X8
12x130 ml	250 ml	Pressure cap	05-01V250P	05-01V250PT
96x130 ml	250 ml	Pressure cap	05-01V250P-X8	05-01V250PT-X8
6x300 ml	500 ml	Pressure cap	05-01V500P	05-01V500PT
6x600 ml	1.000 ml	Pressure cap	05-01V1000P	05-01V1000PT
4x1.500 ml	3.000 ml	Pressure cap	05-01V3000P	05-01V3000PT
4x3.000 ml	5.000 ml	Pressure cap	05-01V5000P	05-01V5000PT

#### Timestrip

Cutting-edge device for monitoring the fixing time. It is essential for preventing hypofixation and specimen necrosis, or hyperfixation and variability of results in immunohistochemistry and molecular biology.



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#### **TIMESTRIP - Patent pending**

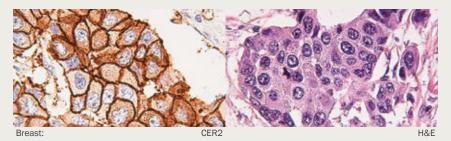
1\_Container with Timestrip
The Timestrip is fitted onto container cap
2\_Insertion of the specimen
The specimen is put in the container prefiled with formalin
3\_Timestrip activation
Press the Timestrip in to activate it
4\_Timestrip coloured
Once the set time is over, the Timestrip is fully coloured
(24h for biopsy, 48h for larger specimens)

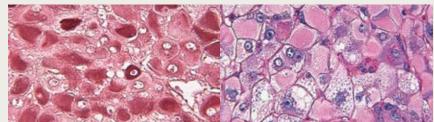
HISTOLOGY\_ Fixation General catalogue

#### **Cell-Block**

Formalin-free fixative for histological specimens. The active ingredient of Cell-Block is glyoxal, in a hydroalcoholic buffered solution. Glyoxal is a dialdehyde, whose structure is the same as that of two attached formaldehyde molecules: this means its mechanism of action is the same as formaldehyde. Immunoreactivity is not affected, and tissues are fixed preventing excessive hardening, thus simplifying their subsequent cutting. Cell-Block can fix small biopsies in 45-60 minutes. Slightly larger specimens are fixed in 1-2 hours and 2- 4 hours approximately are required for specimens with a thickness that exceeds 4 mm. Longer time is required for larger specimens.

PACKAGING	CODE
1x2,5 I	05-01065D
4x2,5 l	05-01065Q
54x9 ml	05-065V15P
54x18 ml	05-065V30P
54x25 ml	05-065V50P
24x75 ml	05-065V125P
6x300 ml	05-065V500P
4x1.800 ml	05-065V3000P
4x3.000 ml	05-065V5000P

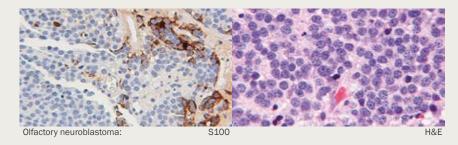


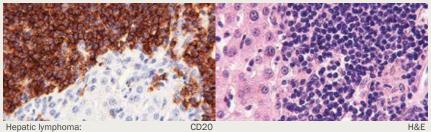


Hepatic biopsy:

Orcein

PASD





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HISTOLOGY\_ Fixation **General catalogue** 

#### **Other fixatives**

PRODUCT AND DESCRIPTION	PACKAGING	CODE
B 5	1x500 ml	05-M01023
For hematopoietic tissue	1x10	05-K01023
Bouin	1x500 ml	05-M01008
For bone marrow biopsies	1x2,5 I	05-01008E
	4x2,5 I	05-01008Q
Bouin Hollande sublimate	1x500 ml	05-M01026
For hypophysis and endocrine pancreas		
Carnoy	1x500 ml	05-M01013
Elective for glycogen	1x2,5 I	05-01013E
Carson	1x500 ml	05-M01019
For electron microscopy	1x10 I	05-K01019
Dubosq Brezil	1x500 ml	05-M01024
Excellent for needle biopsy	1x2,5 I	05-01024E
Zenker fixative	54x18 ml	05-01025V30P
For fine histology, cytology and mitochondria	1x500 ml	05-M01025
	1x2,5 I	05-01025E
F.A.A. fixative	1x2,5 I	05-01001E
Mixture for samples with high fat tissue content		
Hollande	54x18 ml	05-01030V30P
Excellent for trichrome stains	4x2,5 I	05-01030Q
	1x2,5 I	05-01030E
Immunofix	1x10 I	05-K01015
With paraformaldehyde 4% phosphate buffered,	1x20 I	05-K01016
recommended for immunohistochemical		
techniques		



#### DECALCIFICATION

### Fixing decalcifying solutions

Fixing decalcifying solutions for osteomedullary biopsies and calcified tissues.

	PRODUCT AND DESCRIPTION	PACKAGING	CODE
•	Mielodec Decalcifying-fixative for bone marrow biopsies	10x100 ml	04-230827
	with two components		
٠	Gooding- Stewart	1x2,5 l	05-03003E
	For calcified bone	4x2,5 l	05-03003Q

#### **Decalcifying solutions**

Decalcifying solutions simplify bone specimen cutting operations.

	PRODUCT AND DESCRIPTION	PACKAGING	CODE
•	Osteodec	1x500 ml	05-M03005
	Decalcifying solution for bone marrow biopsies	1x2,5 I	05-03005E
		4x2,5 I	05-03005Q
٠	Biodec R	1x500 ml	05-M03009
	Fast decalcifying solution for mineralized tissues	4x2,5 I	05-03009Q
•	Electrolytic decalcifying solution	1x500 ml	05-M03004
	Rapid decalcifier based on hydrochloric and	4x2,5 I	05-03004Q
	formic acid		



HISTOLOGY\_ Decalcification General catalogue

#### PROCESSING

#### **Tissue processor VTP 300**

VTP300 is automatic processor а vacuum tissue processor (floor model) designed for routine pathological histology operations. High quality manufacturing and extremely easy to use and to maintain. During the process, all stages and actions are shown on the display: current stage, current actions (loading, unloading, etc.), temperature of the processing chamber, temperature of paraffin hot chamber, pressure of the processing chamber, date and time of process completion and further information for supporting its use.

It can process 300 specimens per cycle, guaranteeing high daily productivity and ensuring high-quality final products.

This device is equipped with two stainless steel 150-cassette baskets for specimens, with dividers and cover.



#### Features

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

#### **Prefilled tanks**

PACKAGING	CODE
0.071	CE 200040
,	65-30001S
6x2,7 I	65-30002S
6x2,7 I	65-30003S
6x2,7 I	65-30016S
6x2,7 I	65-30005S
6x2,7 I	65-30006S
6x2,7 I	65-30007S
6x2,7 I	65-30013S
6x2,7 I	65-30008S
6x2,7 I	65-30009S
6x2,7 I	65-30010S
6x2 kg	65-30011
	6x2,7   6x2,7   6x2,7   6x2,7   6x2,7   6x2,7   6x2,7   6x2,7   6x2,7   6x2,7





#### **Tissue processor FTP 300**

The automatic processor FTP300 is a high-speed vacuum tissue processor (floor model).

It can process up to 300 biopsies in 45 minutes, without using microwaves or ultrasounds.

High speed processing is possible thanks to the cutting-edge EHE (Enhanced Heat Exchanger) that allows for reagent heating before loading in the processing chamber.

	PRODUCT	CODE
•	Rapid automatic tissue processor for histology	FTP300
•	Automatic tissue processor for histology	VTP300





#### **Solvents**

#### **Bio Clear**

Natural clearing reagent developed to replace xylene in slide processing, deparaffinization and dehydration.

PACKAGING	CODE
1x2,5 l	06-1782D
4x2,5 l	06-1782Q

#### **Xylene for histology**

Xylene-based solvent for histology and cytology methods.

PACKAGING	CODE
4x2,5 l	06-1304Q

#### Dehyol 70

70% alcohol mixture, perfect to replace 70% ethanol in all histology/cytology methods.

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

#### Dehyol 95

95% alcohol mixture, perfect to replace 95% ethanol in all histology/cytology methods.

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





#### **Absolute Dehyol**

Absolute alcohol mixture perfect to replace absolute ethanol in all histology/cytology methods.

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

#### **AlcoolPath 95**

95% ethyl alcohol-based mixture containing less than 5% isopropyl alcohol.

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

#### **Absolute AlcoolPath**

Absolute ethyl alcohol-based mixture containing less than 5% isopropyl alcohol.

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

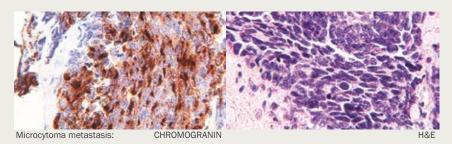
#### **Unyhol and Unyhol Plus**

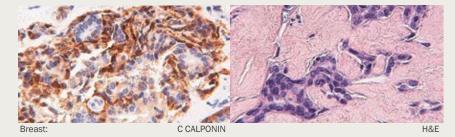
Unyhol and Unyhol Plus have been developed to clear the laboratory of any harmful and highly volatile reagents. They are to be used in sequence during processing and staining. Fewer steps and standardised methods for laboratory operating in compliance with the highest quality standards.

Unyhol prevents the excess specimen dehydration and can replace the whole series of alcohol concentrations.

Unyhol Plus is based on natural terpenes. It is used for the clearing process and complements Unyhol action.

	PRODUCT	PACKAGING	CODE
•	Unyhol	1x5   4x2 E	06-10071F
•	Unyhol Plus	4x2,5   1x5	06-10071Q 06-9816F
Ĩ		4x2,5 I	06-9816Q







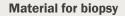


#### **Bio-Plast Paraffins**

Exclusive, high quality paraffin-plastic polymer mixtures. Excellent penetration into any tissue types and proper elasticity during cutting, for serial sections even with fibrous tissue.

DMSO (dimethyl sulfoxide) free.

DESCRIPTION	MELTING POINT	PACKAGING	CODE
Standard for routine	56÷58 °C	6x2 kg	08-7910
Special for processing	52÷54 °C	6x2 kg	08-7915
Plus, high quality	56÷58 °C	6x2 kg	08-7920
Standard for routine, blue colour	54÷57 °C	6x2 kg	08-7910B
Standard for routine	56÷58 °C	1x20 kg	08-7910/20
Plus, high quality	56÷58 °C	12x1 kg	08-7920K



#### **Filters for biopsy**

Small pads made of a special solvent- and paraffin-permeable material; they allow for the processing of extremely small specimens preventing any loss of material.

COLOUR	PACKAGING	CODE
Blue	500 pcs	07-7290
Blue	5.000 pcs	07-7290/5
Blue	15.000 pcs	07-7290/15
Black	5.000 pcs	07-7291

#### **Biopsy bags**

Fine mesh nylon biopsy bags, resistant to solvent and paraffin, perfect for processing small sized histological specimens.

SIZE	PACKAGING	CODE
30x45 mm	1.000 pcs	07-00005
45x60 mm	1.000 pcs	07-00003
75x73 mm	1.000 pcs	07-00004



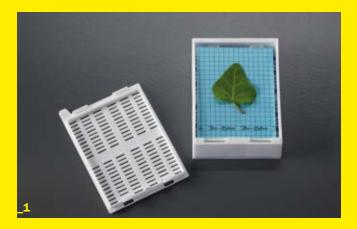




#### **Mucosectomia Kit**

Advanced kit for proper mucosectomy positioning, ensuring they will provide enough histopathological tissue for allowing correct diagnosis.

PACKAGING	SIZE	CODE
5 mucosectomia kit small	70X50 mm	08-8800
5 mucosectomia kit big	180x180 mm	08-8900



**1\_Mucosectomy positioning** As soon as it is drawn, the specimen is spread on the proper surface.



**2\_Specimen covering with protection filter** Filter protects the drawn specimen and keeps it in place

#### Endokit

Complete patented system for proper endoscopic biopsy orientation. It includes:

- cut strips in cellulose nitrate with sloped end
- 10% neutral buffered formalin prefilled test tubes for immediate biopsy fixation

PACKAGING	CODE
40 Endokit strips and 80 prefilled vials	08-8700N
40 Endokit	08-8710N



**1\_Cut stripes and prefilled test tubes** Ready-to-use device for optimising operator time



**2\_Biopsy positioning** Oriented biopsies simplify the diagnosis by the pathologist



#### **Cassette printer**

Histology cassette printer Primera, with heat transfer printing technology. It allows both black&white and colour HD (high definition) printing of text, images, logotypes and Data Matrix and 2D bar codes.

It can be interfaced with the laboratory reporting system.

#### • Features

Dimension:	304,8 x 657,9 x 490,0 mm (w x d x h)
Weight:	38,56 kg
Cassettes capacity:	4 loaders of 40 cassettes each
Output capacity:	7 cassettes / 17 cassettes with extension
Printing system:	thermal transfer
Print speed:	up to 11 cassettes per minute (monochrome)
	up to 8 cassettes per minute (full colour)
	up to 5 cassettes per minute
	(intermediate colour to tone)
Print colours:	8 colours; other colours are available through colour
	combinations
Compatibility cassettes:	standard cassettes with printing surface smooth inclined
	either 35 $^\circ$ or 45 $^\circ$ , with lid or without lid, without the
	need for adjustment.
PRODUCT	CODE

Cassette printer with automatic loading	078404
Cassette printer with manual loading	078406
Cassette loader - additional module for 078406	078408

#### Bio Cassettes with lid, stacked and with tape (for Primera)

COLOUR	PACKAGING	BIOPSY CASSETTES CODE	BIO CASSETTES CODE
White	50 hoppers with 40 pcs each	07-9800	07-9700
Orange	50 hoppers with 40 pcs each	07-9810	07-9710
Blue	50 hoppers with 40 pcs each	07-9820	07-9720
Yellow	50 hoppers with 40 pcs each	07-9830	07-9730
Lilac	50 hoppers with 40 pcs each	07-9840	07-9740
Pink	50 hoppers with 40 pcs each	07-9850	07-9750
Green	50 hoppers with 40 pcs each	07-9860	07-9760
Grey	50 hoppers with 40 pcs each	07-9880	07-9780



HISTOLOGY\_ Processing General catalogue

PRIMERA



#### **Bio cassettes**

Acetal resin embedding cassettes, for small biopsies and specimens.

#### • Bio Cassettes (with lid)

PACKAGING	CODE
3x500 pcs	07-7100
3x500 pcs	07-7110
3x500 pcs	07-7120
3x500 pcs	07-7130
3x500 pcs	07-7140
3x500 pcs	07-7150
3x500 pcs	07-7160
3x500 pcs	07-7180
	3x500 pcs 3x500 pcs 3x500 pcs 3x500 pcs 3x500 pcs 3x500 pcs 3x500 pcs 3x500 pcs

\* Available also in economic packaging with 4.500 pcs

#### • Bio Cassettes II (detachable lid)

COLOUR	PACKAGING COVERS + CASSETTES	CODE
White	1x2.000 pcs + 2x1.000 pcs	07-8100
Orange	1x2.000 pcs + 2x1.000 pcs	07-8110
Blue	1x2.000 pcs + 2x1.000 pcs	07-8120
Yellow	1x2.000 pcs + 2x1.000 pcs	07-8130
Lilac	1x2.000 pcs + 2x1.000 pcs	07-8140
Pink	1x2.000 pcs + 2x1.000 pcs	07-8150
Green	1x2.000 pcs + 2x1.000 pcs	07-8160





#### • Mega Cassettes (double height, with lid)

COLOUR	PACKAGING	CODE
White	750 pcs	07-7300

#### • Super Mega Cassettes (for macrosections, detachable lid)

Designed with larger handles for increasing the contact surface with paraffin and preventing specimen detachment during microtome cutting.

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COLOUR	PACKAGING	SIZE	CODE
White	200 pcs	70x50x15 mm	07-7000





#### **Biopsy Cassettes**

Acetal resin embedding cassettes, for small biopsies and specimens.

#### • Biopsy Cassettes (with lid)

Grey	3x500 pcs	07-7280
Green	3x500 pcs	07-7260
Pink	3x500 pcs	07-7250
Yellow	3x500 pcs	07-7230
Blue	3x500 pcs	07-7220
Orange	3x500 pcs	07-7210
White	3x500 pcs	07-7200
COLOUR	PACKAGING	CODE

#### • Biopsy Cassettes II (with detachable lid)

COLOUR	PACKAGING COVERS + CASSETTES	CODE
White	1x2.000 pcs + 2x1.000 pcs	07-8200
Orange	1x2.000 pcs + 2x1.000 pcs	07-8210
Blue	1x2.000 pcs + 2x1.000 pcs	07-8220
Yellow	1x2.000 pcs + 2x1.000 pcs	07-8230
Lilac	1x2.000 pcs + 2x1.000 pcs	07-8250
Pink	1x2.000 pcs + 2x1.000 pcs	07-8260
Green	1x2.000 pcs + 2x1.000 pcs	07-8280



Acetal resin cassettes, without lid and with round holes.

CODE
07-7350

Metal lids for embedding cassettes.

PACKAGING	CODE
10 pcs	07-086-74195

#### **Embedding Rings**

#### Acetal resin embedding rings.

Green	1.500 pcs	07-7660
Pink	1.500 pcs	07-7650
Yellow	1.500 pcs	07-7630
Blue	1.500 pcs	07-7620
Orange	1.500 pcs	07-7610
White	1.500 pcs	07-7600
COLOUR	PACKAGING	CODE
	PAGUAGINIO	0005











#### **Printer cassettes**

#### • Stacked cassettes tube, with detachable lid, for Thermo Scientific printer

COLOUR	PACKAGING	BIOPSY CASSETTES CODE	BIO CASSETTES CODE
White	20 tubes with 75 pcs each	07-9600	07-9500
Orange	20 tubes with 75 pcs each	07-9610	07-9510
Blue	20 tubes with 75 pcs each	07-9620	07-9520
Yellow	20 tubes with 75 pcs each	07-9630	07-9530
Lilac	20 tubes with 75 pcs each	07-9640	07-9540
Pink	20 tubes with 75 pcs each	07-9650	07-9550
Green	20 tubes with 75 pcs each	07-9660	07-9560
Grey	20 tubes with 75 pcs each	07-9680	07-9580

#### • Stacked cassettes with tape and hinged lid, for Leica and Sakura printers

COLOUR	PACKAGING	BIOPSY CASSETTES CODE	BIO CASSETTES CODE
White	50 hoppers with 40 pcs each	07-9400	07-9300
Orange	50 hoppers with 40 pcs each	07-9410	07-9310
Blue	50 hoppers with 40 pcs each	07-9420	07-9320
Yellow	50 hoppers with 40 pcs each	07-9430	07-9330
Lilac	50 hoppers with 40 pcs each	07-9440	07-9340
Pink	50 hoppers with 40 pcs each	07-9450	07-9350
Green	50 hoppers with 40 pcs each	07-9460	07-9360
Grey	50 hoppers with 40 pcs each	07-9480	07-9380

#### Stacked cassettes with tape and detachable lid, for TBS and RA Lamb printers

COLOUR	PACKAGING	BIOPSY CASSETTES CODE	BIO CASSETTES CODE
White	50 hoppers with 40 pcs each	07-9200	07-9100
Orange Blue	50 hoppers with 40 pcs each 50 hoppers with 40 pcs each	07-9210 07-9220	07-9110 07-9120
Yellow	50 hoppers with 40 pcs each	07-9220	07-9130
Lilac	50 hoppers with 40 pcs each	07-9240	07-9140
Pink	50 hoppers with 40 pcs each	07-9250	07-9150
Green	50 hoppers with 40 pcs each	07-9260	07-9160
Grey	50 hoppers with 40 pcs each	07-9280	07-9180









#### **EMBEDDING**

#### **Embedding station**

Modular system for histological specimen paraffin embedding It consists of three separate units:

- Paraffin dispenser
- Thermal unit
- Cooling plate

Operating parameters, as well as module switching on/off, can be programmed separately.

The paraffin dispenser features:

- Proximity sensor for paraffin supply, with possible flow adjustment
- 6 x heated forceps seats
- Heated paraffin collection tray ۲

The accurate temperature control for the paraffin bath and the processing plate, and the separated supply nozzle heating guarantee constant operating temperature. The upper part of the thermal unit is compatible with all marketed processor baskets. Two versions available.



**General catalogue** 



#### Embedding station CD1000

The CD1000 model is equipped with cooling plate PF100. It can contain up to 70 standard embedding cassettes. Plastic anti-drip edges.

#### • Features

Dimension:	1200 x 560 x 290 mm (w x d x h)
Weight:	68 Kg
Working hot plate:	aluminium surface 350 x229 (w x d)
Paraffin basin:	in stainless steel, about 4 I volume
Upper chamber for processing rack	in stainless steel, about 5,5 l volume,
with removable basin:	surface 315 x 210 x 104 mm (w x d x h)
Lower basin:	in stainless steel, capacity 3 l
Cooling surface:	in stainless steel, surface 420 x 245 mm (w x d)
Working temperature:	hot elements +20°C - +70°C
	cooling plate -20°C - +20°C

#### PRODUCT

Complete embedding station	40-200-000
Paraffin dispenser	40-200-100
Cooling plate	40-300-200
Thermal unit	40-200-200



CODE

HISTOLOGY\_ Embedding General catalogue







HISTOLOGY\_ Embedding

General catalogue

#### **Embedding station CD2000**

The CD2000 model features the new cooling plate PF200. It can contain up to 250 standard embedding cassettes. It features Plexiglas lid and 48 mm-high edge, providing a real cooling chamber, rather than a simple cooling base, with the benefits below:

- High cooling power
- No condensation on plate surface (condensation water limits to 0°C the effective surface temperature)
- No condensation dripping on the laboratory bench

#### Features

Dimension:	1200 x 560 x 290 mm (w x d x h)
Weight:	68 kg
Working hot plate:	aluminium surface 350 x229 (w x d)
Paraffin basin:	in stainless steel, about 4 I volume
Upper chamber for processing rack	in stainless steel, about 5,5 I volume,
with removable basin:	surface 315 x 210 x 104 mm (w x d x h)
Lower basin:	in stainless steel, capacity 3 I
Cooling surface:	in stainless steel, surface 422 x 245 mm (w x d)
Working temperature:	hot elements +20°C - +70°C
	cooling plate -20°C - +20°C
PRODUCT	CODE

Complete embedding station	40-200-001
Paraffin dispenser	40-200-100
Cooling plate	40-300-201
Thermal unit	40-200-200



#### **Heated forceps**

Forceps with electronic temperature control for specimen embedding. This device is preset for operation with two simultaneously heated forceps.

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

#### **Paraffin dispenser**

Paraffin dispenser with 8-litre stainless steel tank with heated base and digital electronic thermostat for programming device switch on/off.

#### Features

Dimension:	450 x 370 x 540 (w x d x h)	
Weight:	16 kg	
Temperature:	from +20°C to +70°C	
PRODUCT		CODE
Paraffin dispenser		40-200-101

#### **Steel embedding moulds**

Stainless steel moulds for paraffin embedding of histological specimens.

#### Bio Mold

SIZE	PACKAGING	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

	SIZE	PACKAGING	CODE		
	33 x 24 x 12 mm	6 pcs	07-MBM6		
•	Super Mega Mold				
	SIZE	PACKAGING	CODE		
	65 x 45 x 15 mm	10 pcs	07-7010		

#### **Dispomold in PVC**

Disposable PVC embedding moulds.

SIZE	PACKAGING	CODE
7 x 7 x 5 mm	1.500 pcs	07-MP7070
15 x 15 x 5 mm	1.500 pcs	07-MP1515
24 x 24 x 5 mm	1.500 pcs	07-MP2424
30 x 24 x 5 mm	1.500 pcs	07-MP3024
37 x 24 x 5 mm	1.500 pcs	07-MP3724











HISTOLOGY\_ Embedding General catalogue

#### **MICROTOMY**

#### **Microtome Bench**

Complete cutting unit complete with all required equipment for microtome sectioning of paraffin embedded specimens.

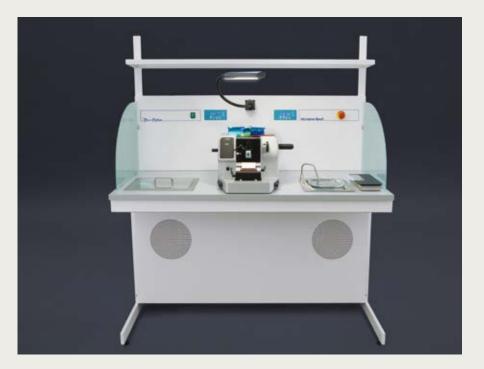
The painted metal frame houses: cooling chamber, water bath and hot plate.





HISTOLOGY\_ Microtomy

**General catalogue** 



#### Features •

Dimension:	1500 x 800 x 1775 mm (w x d x h)	
Weight:	120 Kg	
Cooling plate		
Working surface:	310 x 300 mm	
Capacity:	170 cassettes in vertical position	
Minimal temperature:	-20°C	
Water bath		
Adjustable temperature:	from +20°C to +70°C	
Lighting:	with neon lamp	
Hot plate		
Capacity:	up to 24 slides	
Adjustable temperature:	from +20°C to +70°C	
PRODUCT		CODE
Microtome Bench TMB		40-300-400

#### Second operator bench TSO

Second microtome cutting bench, complete with water bath and hot plate. To complement the Microtome Bench, providing two complete workstations.

#### Features

Dimension:	1200 x 800 x 1775 mm (w x d x h)	
Weight:	100 Kg	
PRODUCT		CODE
Bench for second operator		40-300-401

Bench for second operator



#### Freezing plate PF200

Cooling plate featuring an operating chamber with 48 mm-high edge, designed for providing a real cooling chamber, rather than a simple cooling base.

It features chamber lid, may be opened from both sides, and a thermostat for operating temperature adjustment.

This solution provides the benefits below:

- High cooling power
- No condensation on the base plate or dripping on the laboratory bench
- Possibility to cool several paraffin embedded blocks (250 approx.)



#### Features

Dimension:	500 x 550 x 290 mm (w x d x h)
Weight:	30 Kg
Capacity:	250 cassettes
Working temperature:	from +20°C to -20°C
Cooling system:	without CFC
PRODUCT	CODE
Cooling plate	40-300-201

#### **Cooling plate PF100**

Cooling plate for paraffin embedded histological specimens. Featuring anti-drip edges. It can contain up to 70 blocks.

#### • Features

Dimension:	500 x 550 x 290 mm (w x d x h)
Weight:	30 Kg
Capacity:	70 cassettes
Working temperature:	from +20°C to -20°C
Cooling system:	without CFC

PRODUCT

CODE

Cooling plate

40-300-200





HISTOLOGY\_ Microtomy General catalogue



#### Water bath WB1770

Equipped with removable Pyrex tank (1,2 litre capacity) for easy water filling/draining and for guaranteeing improved safety and simple use.

Temperature is controlled by a probe in direct contact with water, featuring a safety device that stops power supply when the tank is removed. The upper base plate can be heated and can hold up to 24 slides.

#### Features

Dimension:	350 x 365 x 155 mm (w x d x h)
Slide-dryer plate dimensions:	350 x 100 mm (w x d)
Weight:	8 Kg
Thermostat:	electronic thermostat with digital display
Bath temperature:	from +20°C to +70°C
Temperature control:	through NTC10K probe immersed directly in water
Basin lighting:	neon lamp 6 Watt
Working temperature adjustment	from +20°C to +50°C
(slide - dryer plate):	
PRODUCT	CODE

40-300-000

40-300-050

#### Round water bath WB100

Water bath WB1771

Pyrex basin

Easy-to-use and reliable bath with temperature control, equipped with: analogue thermostat, heating light indicator and large heated surface for slides. Size:  $330x90 \text{ mm} (\emptyset \text{ x h})$  and internal tank size 200 mm ( $\emptyset$ )

PRODUCT	TEMPERATURE	CODE
Water bath WB100	from +30°C to +80°C	40-300-002



HISTOLOGY\_ Microtomy General catalogue



#### **Hot plates**

Hot plate for general laboratory purposes. Featuring anodized aluminium top and digital electronic thermostat. Temperature can be adjusted up to 90°C.

PRODUCT	DIMENSION	WEIGHT	CODE
PC400 hot plate	150 x 190 x 100 mm	1,5 Kg	40-300-300
PC800 hot plate	150 x 380 x 100 mm	2 Kg	40-300-301
PC810 hot plate	300 x 400 x 100 mm	7 Kg	40-300-302



#### Forced convection oven SVF100

Oven with temperature control.

For fast slide drying and laboratory material rapid heating.

The digital display allows adjustment working of parameters and programming oven switching on/off.

The chamber is equipped with two removable and height-adjustable perforated shelves, and with a removable collection tray.

#### Features

Dimension:	490 x 340 x 610 mm (w x d x h)	
Dimension internal chamber:	410 x 300 x 430 mm (w x d x h)	
Weight:	32 Kg	
Power:	2.000 Watt	
Thermostat:	electronic thermostat with microprocessor with display	
	in two languages	
Temperature:	from +20°C to +70°C	
Programming:	on/off, weekly	
PRODUCT	CODE	
SVF100 oven	40-300-101	

#### Histology oven SVN1790

Laboratory oven.

For slide and glassware drying, or for laboratory material rapid heating. It includes two removable perforated shelves and one bottom tray.

#### Features

Dimension:	480 x 380 x 315 mm (w x d x h)
Dimension chamber:	300 x 300 x 215 mm (w x d x h)
Temperature:	from +20°C to +100°C with digital electronic
	thermostat

PRODUCT

CODE

SVN1790 oven

40-300-100



HISTOLOGY\_ Microtomy **General catalogue** 







#### **Steel blades**

#### C PROFILE - For cryostat.

LENGHT	MATERIAL	CODE
12 cm	Steel	08-12/C
16 cm	Steel	08-16/C
18 cm	Steel	08-18/C
22 cm	Steel	08-22/C

D~PROFILE~ - For microtome. Special blades for cutting embedded resin specimens or non-decalcified paraffin embedded biopsies.

LENGHT	MATERIAL	CODE
12 cm	Steel	08-12/D
16 cm	Steel	08-16/D
18 cm	Steel	08-18/D
22 cm	Steel	08-22/D

#### **Brushes**

For cryo-microtomy and microtomy.

PRODUCT	PACKAGING	CODE
Small for biopses	4 pcs	08-0822
Small for microtome sectioning	4 pcs	08-0823
Medium for microtome sectioning	4 pcs	08-0824
Medium for cleaning microtome blade	2 pcs	08-0825
Large for microtome cleaning	2 pcs	08-0826
Large for cryostat cleaning	2 pcs	08-0827
Set with 5 brushes for cryostat (includes	1 pcs	08-0828
codes 0822-0823-0824-0825-0827)		
Set with 5 brushes for microtome (includes	1 pcs	08-0829
codes 0822-0823-0824-0825-0826)		



HISTOLOGY\_ Microtomy General catalogue

#### **BioParaFree**

Completely odourless dewaxing spray solution, for cleaning microtomes, work benches and stations from paraffin residues. Bottle with sprayer.

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



#### **Killik**

Embedding medium for cryostat sectioning.

COLOUR	PACKAGING	CODE
Neutral	4x100 ml	05-9801
Pink	4x100 ml	05-9801R
Blue	4x100 ml	05-9801B
Green	4x100 ml	05-9801V



#### Crio Clor 0,3

Chlorexydine-based (0.3%) spray disinfectant for cryostat, effective against bacteria, fungi and other viruses (hepatitis B, poliomyelitis, herpes simplex).

PACKAGING	CODE	
1x125 ml	05-9802	

#### Cryo spray

Freezing spray for histology purposes: quickly freezes the tissue to be sectioned by cryostat, as well as cooling down paraffin embedded specimens before microtome cutting.

PACKAGING	CODE
12x150 ml	08-SPRAY

### **Microtome oil**

Microtome lubricant.

PACKAGING	CODE
1x100 ml	08-1721
2x100 ml	08-1720

Bio - Optica





## **General catalogue**

HISTOLOGY\_ Microtomy





#### **STAINING**

#### **Automatic stainer AUS140**

Automated stainer for histology, with XY translator, suitable for all "routine and special" histological staining processes, and able to carry out simultaneously several staining processes, limited only by the number of tanks available (10-12 processes approximately). Continuous loading of baskets containing 30 slides.

The performance depends on the staining protocol and, however, exceeds 2.000 slides/day.

#### Features

Dimension:	1.150 x 770 x 900 mm (w x d x h)
Weight:	150 kg
Working stations:	40 stations total
Bath capacity:	485 ml
Reagents stations:	28 plastic baths for reagents in two series, while the
	frontal series has 5 washing baths for tap water with
	pressure regulator and flow timing and a rack with 2
	for loading and 3 for unloading, accessible while lid
	closed, and 2 with forced ventilation of hot air at 60 °C,
	electronic control
Basket for slides:	30 slides
Number of programs:	over 50 programs, with more than 100 parameters for
	program
Programming immersion time:	from 1" to 99' 59", in second intervals
Interface:	touch screen monitor, with a large colour display that
	can show graphically the progress of ongoing programs,
	the scheme of the process baths and all the relevant
	data of the stains





HISTOLOGY\_ Staining General catalogue

	PRODUCT	CODE
•	Automatic stainer AUS 140	40-400-200
•	Automatic stainer AUS140 with oven	40-400-250
٠	Automatic stainer AUS140 with distilled water baths	40-400-300

#### Accessories

CODE
40-400-253
40-400-256
40-400-257
40-400-258
40-400-259
40-400-260
40-400-261
40-400-262





#### \_Optional reagent saving system for special staining processes

Special staining processes are handled by special equipment for reducing reagent consumption, such equipment allows to be loaded reagent tanks with a reduced capacity of 150 ml, and 8-slide baskets.

**\_Standard independent filtering system, with easy-to-remove filter** Integrated vapour neutralisation and active carbon filtering system.

#### \_Possibility to connect to laboratory extraction system

Preset for connecting the intake manifold on device upper part, enabling the connection to hospital central system for vapour discharge to the outside.





HISTOLOGY\_ Staining General catalogue







HISTOLOGY\_ Staining General catalogue

#### Linear stainer AUS124

Automated slide stainer with carousel. Extremely easy to use, it has an integrated fume extraction and filtration system.

It includes user-friendly programming system that allows to set the operating parameters alternating different staining processes.

#### Features

Dimension:	600 x 700 x 600 mm (w x d x h)
Weight:	75 Kg
Working stations:	24 including 2 washing stations
Bath capacity:	750 ml
Basket for slides:	65 slides
Number of programs:	50 different staining protocols, with a maximum number
	of 30 passages each
Programming immersion time:	time of immersion and dripping from 00':01''up to
	50':59''
Interface:	colour touch screen control panel for the programs and
	visualization of the parameters and the control of the
	process of stains
Security:	external cover for containing fumes
Other features:	2 lithium buffer batteries for emergency power supply in
	case of black-out
PRODUCT	CODE

CODE

40-400-000



Automatic stainer AUS124

#### Automated stainer for microbiology and haematology AUS107



#### **Features**

Dimension:	500 x 450 x 450 mm (w x d x h)
Weight:	12 Kg
Programming:	through memory card
Immersion time:	from 1" to 99'59"
Interface:	LCD display showing the parameters of color and set-up
	tool
Bath capacity:	300 ml
Basket capacity:	24 slides
PRODUCT	CODE
Automatic stainer AUS107	40-400-100

#### **Specific staining kits**

PRODUCT	CODE
Gram for microbiology	04-100803
Ziehl-Neelsel for microbiology	04-111803
MGG Quick Stain for haematology	04-090805
Fast H&E for frozen section	04-065010



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Automated stainer for microbiology, haematology and anatomical pathology with seven work units (five for reagents, one for slide washing and one for slide drying).

A version with six work units for reagents and one washing unit for hematoxylin and eosin stains is available for extemporaneous examinations.

It features a built-in active carbon filtration system and a dripping system that protect the basket during the transfer from one tank to another, keeping reagents clean for longer time.

The AUS107 stainer has been designed for ensuring operator safety. All units, indeed, are closed by a cover, which sharply reduces emissions to the work environment. Moreover, units are automatically emptied conveying all reagents in a discharge tank, without the operator having to come into contact with dangerous substances.



HISTOLOGY\_ Staining General catalogue

# **Bench Tech series 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.



#### • Features

Aspiration:	1 three-phase electrofan adju	1 three-phase electrofan adjustable	
Lighting:	2 led tubes, 10 Watt/each	2 led tubes, 10 Watt/each	
PRODUCT	DIMENSION	CODE	
Bench Lab Tech 90	900 x 750 x 1340 mm	50-090-201	
Bench Lab Tech 130	1300 x 750 x 1340 mm	50-130-201	
Bench Lab Tech 150	1500 x 750 x 1340 mm	50-150-201	

#### Filters

The filter changing is easy thanks to the removable frontal panel. This system is a feature of all Bio-Optica hoods (LabTech series, Trimming Tech series and Bench Tech series).

PRODUCT	CODE
HEPA filter	50-F005
Filter for alcohol and xylene	50-F004
Alumina filter for formalin	50-F003



HISTOLOGY\_ Staining General catalogue



Bio = Oplica

# **Manual stainer**

Basic easy-to-use PEPT (polyethylene terephthalate) system for cytology and histology staining processes.

The 10-10 kit includes a steel base, twelve tanks with cover (300 ml capacity) and a basket for twenty-five slides.

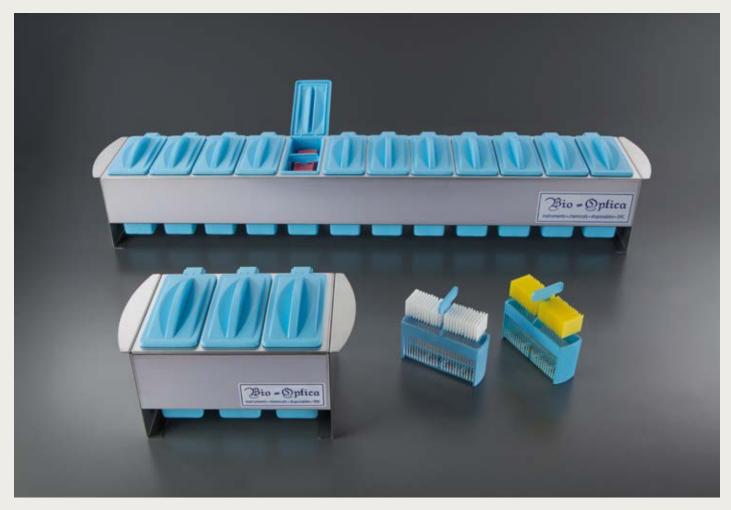
The haematology kit includes one base three tanks with cover and one basket.

Basket and tanks are resistant to solvents and to high temperature (up to 170  $^\circ$  C), and can be used in microwave ovens.

PRODUCT	N. OF DISHES	CODE
Haematology set	3	10-20
Staining set	12	10-10

## ACCESSORIES AND SPARE PARTS

PRODUCT	PACKAGING	CODE
Dish with attached cover	12 pcs	10-30
Dish with separated cover (for old model)	12 pcs	10-33
Basket for 25 slides with plastic handle	6 pcs	10-42









Dish (dimension: 81x101x70 mm) featuring 2 covers: one for closing the dish completely, and the other one with a slot for basket insertion during staining. Resistant to high temperature (up to 120°C).

PRODUCT	PACKAGING	CODE
TPX staining dish	4 pcs	44-13091
Basket for 20 slides	2 pcs	44-13092

# **Glass staining kit**

PRODUCT	CODE
Complete set	10-2000
Dish with cover (size 81 x 101 x 70 mm) and basket	10-1820
Basket for 20 slides	10-1910
Spare tweezer for code 10-1910	10-2010

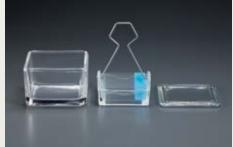
# **Staining dishes**

PRODUCT	PACKAGING	CODE
Glass Hellendhal dish	1 pcs	10-1410
TPX Hellendhal dish	4 pcs	44-13101
Glass Coplin dish	1 pcs	10-1710
Glass Schefferdecker dish	1 pcs	10-1610
TPX Schefferdecker dish	1 pcs	44-13111





General catalogue





# Slide master for special and immunohistochemistry staining

Base for horizontal staining of 20 slides, perfect for special staining and immunohistochemistry processes. It is equipped with two removable and tiltable slide-holding racks, moist chamber and cover.

The adjustable feet and check bead ensure perfect level.

SIZE	CODE
32 x 26 x 11 cm (w x d x h)	15-MEQ001

#### **Timers**

Minute counter for laboratories, resistant to solvents.

MODEL	PACKAGING	CODE
Clip	1 pcs	44-10851
One hand	1 pcs	44-10852
Electronic	1 pcs	44-10853
Digital electronic	1 pcs	44-06057A000



#### Adapter for macrosection slides

To be used with baskets of automated and manual stainers for staining macrosection slides together with standard slides.

PRODUCT	PACKAGING	CODE
Adapter for large slides	2 pcs	20-E103/SL/R30A

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# Pap Pen

It spreads a water repellent waxy film on the slide, to limit the staining area.

PRODUCT	DIAMETER TIP	PACKAGING	CODE
Liquid Blocker	5 mm	1 pcs	11-100
Liquid Blocker Mini	2 mm	1 pcs	11-100M

# Forceps

Microscopy forceps made of polyester resin and glass fibre, resistant to acids, bases and heat (up to 200  $^\circ$  C).

PRODUCT	PACKAGING	CODE
Pointed, 12 cm	1 pcs	08-K2A
With large tip, 12 cm	1 pcs	08-K35A
Curved tip, 12 cm	1 pcs	08-K6
With flat tip, 12 cm	1 pcs	08-KR

Antimagnetic steel microscopy forceps, resistant to acids.

PRODUCT	PACKAGING	CODE
Curved and flat tip, 11,5 cm	1 pcs	08-321
Flat tip for slides, 10,5 cm	1 pcs	08-325
Pointed reeded, 14 cm	1 pcs	08-524
Curved and flat tip, 15,5 cm	1 pcs	08-615



HISTOLOGY\_ Staining

**General catalogue** 

# **Coated paper**

Bench paper, with one waterproof side, covered by a polyethylene film.

PRODUCT	PACKAGING	CODE
Sheets, 48 x 60 cm	100 pcs	08-CA2000
Bench Guard, roll, 50 m	1 pcs	08-BG50
Bench Guard, sheets, 60 x 49 cm	50 pcs	08-BG60

# **Filter paper**

For all laboratory requirements.

Good resistance, under both wet and dry conditions.

SIZE	PACKAGING	CODE
50 x 50 cm	500 pcs	08-656



# **Slide printer**

Extremely compact printer for histology slides, with thermal transfer printing technology. It allows both black&white and colour HD (high definition) printing of text, images, logotypes or Data Matrix and 2D bar codes.

It can be interfaced with the laboratory reporting system.



#### Features

Dimension:	179,8 x 319,5 x 218,4 mm (w x d x h)
Weight:	7,62 Kg
Slides capacity:	loading capacity of 100 slides, Charger with LED lighting,
	for visual check of the amount of remaining slides
Output capacity:	15 slides/minute
Printing system:	thermal Transfer
Print speed:	up to 7 slides per minute (monochrome)
	up to 5 slides per minute (colour)
Print colours:	8 colours, other colours available by colour combination
Slides compatibility:	bevelled slides with 90° corners with coloured band
	dimension :76,2 x 25,4 mm (3"x1") standard or
	positively calibrated, bevelled, with satin white band



Slide printer	078102
PRODUCI	CODE

# **Dedicated microscope slides**

DESCRIPTION	PACKAGING	CODE
Ground edge, white end Ground edge, white end, positively charged	2.500 pcs 2.500 pcs	PR-001 PR-S-001



#### **Microscope slides**

High quality Menzel Glaser slides, cleaned and degreased; cellophane wrapped and free from dust, dirt and cracks.

Bio-Optica microscope slides are resistant to enzymatic treatments and microwaves (750-800 watt).

Dimensions: 26 x 76 mm.

CUSTOM SLIDE SIZE AVAILABLE UPON REQUEST.

# Microscope slides, cut edge

#### STANDARD

END	PACKAGING	CODE
Neutral	1.000 pcs	09-0T95
Frosted	1.000 pcs	09-0TB95

# STANDARD WITHOUT CELLOPHANE

END	PACKAGING	CODE
Neutral	1.000 pcs	09-0T95SC
Frosted	1.000 pcs	09-0TB95SC

#### SUPERFROST WITH COLOURED FROSTED END

END	PACKAGING	CODE
Orange	1.000 pcs	09-9050
White	1.000 pcs	09-9030
Blue	1.000 pcs	09-9010
Yellow	1.000 pcs	09-9040
Pink	1.000 pcs	09-9000
Green	1.000 pcs	09-9020

# Microscope slides, 90° ground edge

# STANDARD

END	PACKAGING	CODE
Neutral	1.000 pcs	09-0M90 09-0MB90
Frosted	1.000 pcs	09-0101690

# SUPERFROST WITH COLOURED FROSTED END

END	PACKAGING	CODE
Orange	1.000 pcs	09-9250
White	1.000 pcs	09-9230
Blue	1.000 pcs	09-9210
Yellow	1.000 pcs	09-9240
Pink	1.000 pcs	09-9200
Green	1.000 pcs	09-9220







# Microscope slides, 45° ground edge

# STANDARD

END	PACKAGING	CODE
Neutral	1.000 pcs	09-0M95
Frosted	1.000 pcs	09-0MB95

#### STANDARD WITHOUT CELLOPHANE

END	PACKAGING	CODE
Neutral	1.000 pcs	09-0M95SC
Frosted	1.000 pcs	09-0MB95SC

# SUPERFROST WITH COLOURED FROSTED END

END	PACKAGING	CODE
Orange	1.000 pcs	09-9150
White	1.000 pcs	09-9130
Blue	1.000 pcs	09-9110
Yellow	1.000 pcs	09-9140
Pink	1.000 pcs	09-9100
Green	1.000 pcs	09-9120

# Superfrost Printink microscope slides

High quality slides, cleaned and degreased, specially designed for ink jet printers. Dimensions: 26 x76 mm.

EDGE	END	PACKAGING	CODE
Cut	Pink	1.000 pcs	09-9000P
Cut	Blue	1.000 pcs	09-9010P
Cut	Green	1.000 pcs	09-9020P
Cut	White	1.000 pcs	09-9030P
Cut	Yellow	1.000 pcs	09-9040P
Cut	Orange	1.000 pcs	09-9050P
45° ground edge	Pink	1.000 pcs	09-9100P
45° ground edge	Blue	1.000 pcs	09-9110P
45° ground edge	Green	1.000 pcs	09-9120P
45° ground edge	White	1.000 pcs	09-9130P
45° ground edge	Yellow	1.000 pcs	09-9140P
45° ground edge	Orange	1.000 pcs	09-9150P
90° ground edge	Pink	1.000 pcs	09-9200P
90° ground edge	Blue	1.000 pcs	09-9210P
90° ground edge	Green	1.000 pcs	09-9220P
90° ground edge	White	1.000 pcs	09-9230P
90° ground edge	Yellow	1.000 pcs	09-9240P
90° ground edge	Orange	1.000 pcs	09-9250P







#### **Coated microscope slides**

#### **POLYSINE SLIDES**

Adhesion is guaranteed by a chemical coating with properties equivalent to polysine.

FEATURES	SIZE	PACKAGING	CODE
90° ground edge	25 x 75 mm	72 pcs	09-0P0L

#### SUPERFROST PLUS SLIDES

An electrostatic treatment charges slide surface positively, allowing to obtain perfect adhesion for the sections with enzymatic digestion, DNA denaturation, RNA hybridization.

FEATURES	SIZE	PACKAGING	CODE
90° ground edge	25 x 75 mm	72 pcs	09-0PLUS

### SUPERFROST PLUS GOLD SLIDES

Designed to guarantee maximum adhesion to cryostat sections, thanks to a new coating that chemically binds the section to the slide

FEATURES	SIZE	PACKAGING	CODE
90° ground edge	25 x 75 mm	72 pcs	09-0PLUS/G

#### SUPERFROST ULTRAPLUS SLIDES

Next generation slides, positively charged. They ensure perfect section adhesion even in case of stronger treatments.

FEATURES	SIZE	PACKAGING	CODE
90° ground edge	25 x 75 mm	72 pcs	09-0PLUS/U
45° ground edge	25 x 75 mm	72 pcs	09-0PLUS/U45

#### **Diagnostic slides**

Well chamber slides for immunohistochemistry, immunofluorescence or immunolabelling of histology sections and cell cultures.

COATING	N. WELLS	PACKAGING	CODE
Epoxy resin	1	100 pcs	09-ER315
Epoxy resin	3	100 pcs	09-ER303
Epoxy resin	8	100 pcs	09-ER301
Epoxy resin	10	100 pcs	09-ER308
Epoxy resin	12	100 pcs	09-ER302
Teflon	3	100 pcs	09-ER203
Teflon	8	100 pcs	09-ER201
Teflon	10	100 pcs	09-ER208
Teflon	12	100 pcs	09-ER202





HISTOLOGY\_ Staining

**General catalogue** 

0/1

p\_**44**/124

#### **Cassette markers**

Special permanent markers: they do not discolour during processing, guaranteeing perfect specimen identification.

They can write on glass, metal, porcelain and plastic.

Securline Marker II – red Histology Pen - black	10 pcs 12 pcs	11-56 11-50
Securline Marker II – black	10 pcs	11-51
MODEL AND COLOUR	PACKAGING	CODE

### **Tube Checker**

Special ink pen for indelible marking of embedding cassettes. Ink is resistant to alcohols and xylene.

Pens have two tips: large and fine.

COLOUR	PACKAGING	CODE
Black	1 pcs	11-400



Small low-voltage device for slide engraving.

PRODUCT	PACKAGING	CODE
Electric glass marker	1 pcs	11-60
Spare tip	3 pcs	11-61









# HISTOLOGY\_ Staining General catalogue

# **Diamond point pen**

For slide engraving.

PRODUCT	PACKAGING	CODE
With aluminium hex handle In glossed metal with diamond vanishing tip	1 pcs 1 pcs	08-DS2F 08-DS3

# **Tissue Capture**

Large tip (18 mm) pen for coating slides with polysine, resistant to solvents.

PACKAGING	CODE
1 pcs	11-200

Bio - Optica



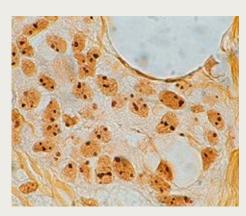
# Manual staining kit

From their launch on the market, Bio-Optica staining kits have been achieving more and more success among Italian and European operators, mainly thanks to the special features we would like to highlight:

- fast and easy to use
- result repeatability
- reasonable cost
- operator safety
- reduced environmental impact

Afog Acid Fuchsin Orange G		04-021002
Reference method for staining p	protein deposits in	
kidney biopsy.		
Number of test	100	
Procedure time	22 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Collagen fibrils	blue	
Nuclei	black	
Erythrocytes, cytoplasm	pink - orange	
Elastic fibrils	pale pink or unstained	
Glomerular protein deposits	lively red	

AgNOR



HISTOLOGY\_ Staining General catalogue AgNOR

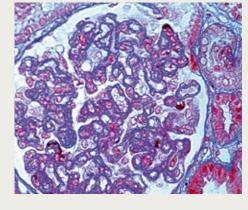
Method for staining argentophilic deposits (100 kD) in the nucleolar organizer region (NOR) in paraffin embedded sections and smears.

Number of test	48
Procedure time	30 minutes
Product validity	1 year
Storage temperature	darkness, 15 - 25 °C
Result	
AgNOR, argentaffin granules	black

04-045801

Bio - Optica

Afog



 PRODUCT AND APPLICATION
 CODE

 Alcian Blue pH 0,5
 04-165812

 Alcian Blue pH 1
 04-166802

 For staining strongly sulphured mucins in tissue sections.
 Number of test

 Procedure time
 50 minutes

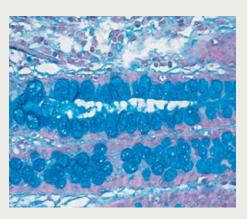
 Product validity
 2 years

 Storage temperature
 15 - 25 ° C

 Result

 Strongly sulphured mucins
 turquoise blue

# **Alcian Blue**



PRODUCT AND APPLICATION

CODE

CODE

04-161802

04-160802

# Alcian Blue pH 2,5 Method for staining acid mucopolycocob

Method for staining acid mucopolysaccharides in tissue sections.

red

Number of test	100
Procedure time	50 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

Nuclei

Acid mucopolysaccharides	turquoise blue
Nuclei	red

PRODUCT AND APPLICATION

#### • Alcian Blue pH 2,5 - pH 1

Method for staining and distinguishing acid mucopolysaccharides in tissue sections. For staining only strongly sulphured mucins, leaving out slightly sulphured mucins, hyaluronic acid and sialomucins, this method requires 2 serial sections. The first one is treated by using Alcian blue pH 2.5 solution, and the subsequent one by Alcian blue pH 1 solution. By comparing the two specimens, the quantity of strongly sulphated mucins can be observed.

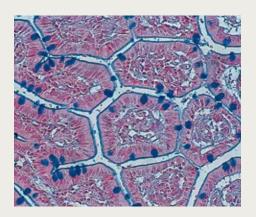
Number of test	100
Procedure time	50 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

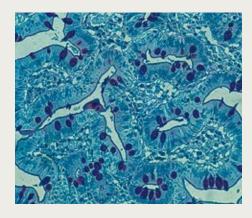
Acid mucopolysaccharides

turquoise blue Bio - Optica

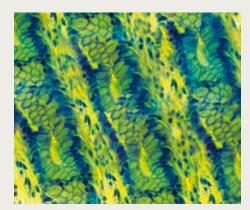
#### Alcian Blue pH 2,5 - 1



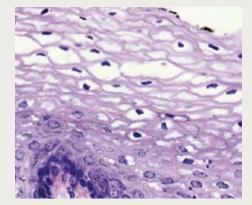
#### **Alcian Blue PAS**



## **Alcian Yellow - Toluidine Blue**



# Amylase



HISTOLOGY\_ Staining

**General catalogue** 

#### PRODUCT AND APPLICATION

CODE

04-163802

#### Alcian Blue pH 2,5 PAS •

Combined method to distinguish between acid mucins, neutral mucins and carbohydrates in tissue sections.

Number of test	100
Procedure time	1 h 25 minutes
Product validity	1 year
Storage temperature	2-8°C

#### Result

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

#### PRODUCT AND APPLICATION

CODE

Alcian yellow-toluidine blue for Helicobacter pylori 04-169812 Combined method for staining Helicobacter pylori and epithelial mucins in gastric tissue sections; recommended thickness 5 µm.

Number of test	100
Procedure time	25 minutes
Product validity	1 year
Storage temperature	15-25°C

Result	
Helicobacter pylori	blue
Mucin	yellow
Background	pale blue

PRODUCT AND APPLICATION	CODE
Amylase - for enzymatic digestion	04-140808
Removal of glycogen from:	
- Hepatic tissue, paraffin embedded sections: histological section	
digestion by amylase-based solution is recommended when glycogen	

has to be removed for observing only epithelial neutral mucins. This is the preferred method for hepatic biopsy. - Muscular tissue: by analysing adjacent cryostat sections, one of whom previously treated with amylase, glycogen presence can be assessed from a quality point of view.

Number of test	100
Procedure time	10 minutes
Product validity	1 year
Storage temperature	2-8°C

#### Result

Further to PAS reaction, glycogen removal can be observed by comparing the specimen with an adjacent section of the same specimen that was not treated with amylase.



#### • Azan trichrome staining

Preferred method for the connective tissue, especially recommended for muscular fibres, glial cells, collagen, reticulum, kidney stromal glomerular cells, erythrocytes and nuclear chromatin.

Number of test	100
Procedure time	1 h 40 minutes
Product validity	2 years
Storage temperature	15-25°C

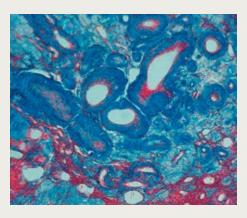
#### Result

Collagen, reticulum, basophil cells granules of hypophysis, juxtaglomerular granules and kidney glomerular stroma	deep blue
Neuroglia	reddish
Muscle	orange
Chromatin, erythrocytes and	red
acidophil granules of hypophysis	
Cytoplasmatic granules of	light blue
hypophysis delta cells	

CODE

04-001802

# **Azan Trichrome**



#### PRODUCT AND APPLICATION

CODE

CODE

Bielschowsky for neurofibrils		04-040805
Recommended method for staining neurofibrils, axons, dendrites and		
senile plaque.		
Number of test	100	
Procedure time	45 minutes	
Product validity	1 year	

Resu	

nosun	
Neurofibrils, axons and dendrites	black
Background	yellow - tobacco brown

2-8°C

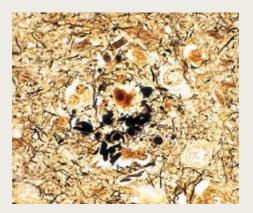
PRODUCT AND APPLICATION

Storage temperature

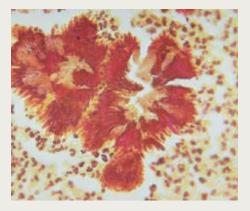
Brown - Brenn for bacteria		04-100807
Method for distinguishing betw	ween Gram-positive and Grar	n-negative
bacteria.		
Number of test	100	
Procedure time	8 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Gram-positive bacteria	blue	

Result	
Gram-positive bacteria	blue
Gram-negative bacteria	red
Filaments of Nocardia and Actinomyces	blue
Nuclei	red
Other tissue elements	yellow
	Bio - Optica

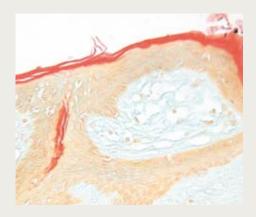
Bielschowsky



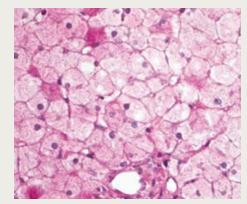
**Brown - Brenn** 



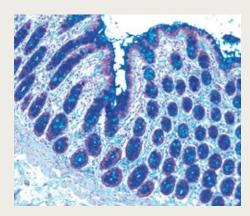
#### Dane



# Diastase



### **Colloidal iron**



HISTOLOGY\_ Staining General catalogue

#### PRODUCT AND APPLICATION

CODE

Dane's staining method for keratin (modified)
 04-220822
 Method for staining prekeratin, keratin and mucin in tissue sections.
 Especially suitable for skin pathologies.

Number of test	100
Procedure time	40 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

Nosun	
Pre-keratin and keratin	orange, red-orange
Mucins	turquoise
Nuclei	orange-brown

PRODUCT AND APPLICATION

CODE

04-140805

#### • Diastase for enzymatic digestion

Histological section digestion by diastase solution is recommended when glycogen has to be removed for observing only epithelial neutral mucins. This is the preferred method for hepatic biopsy.

Number of test	40
Procedure time	30 minutes (oven) or 1 h (room Temperature)
Product validity	1 year
Storage temperature	2-8°C

#### Result

Further to PAS reaction, glycogen removal can be observed by comparing the specimen with an adjacent section of the same specimen that was not treated with diastase.

PRODUCT AND APPLICATION		CODE
Colloidal iron for acid mucins		04-180809
Method recommended for observing acid mucins.		
Number of test	12 assays x 50 ml	
Procedure time	1 h 30 minutes	
Product validity	1 year	
Storage temperature	15-25°C	

#### Result

Acid mucins	blue
Nuclei	red



PRODUCT AND APPLICATION

Feulgen reaction for DNA

Number of test

Procedure time

Product validity

Result DNA

Storage temperature

This method is used for DNA staining in tissue sections.

100

1 year 2 - 8°C

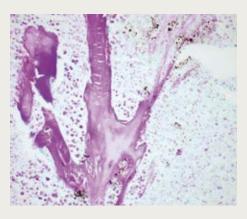
1 h 5 minutes

magenta red

CODE

04-120802

Feulgen



PRODUCT AND APPLICATION	
-------------------------	--

CODE

Fouchet-Van Gieson for bilin	rubin	04-121872
For staining bilirubin in tissue sections.		
Number of test	100	
Procedure time	35 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Bilirubin	green	
Connective tissue	red	
Collagen	vellow	

PRODUCT AND APPLICATION

CODE

Bio - Optica

04-045872

#### • Gomori's paraldehyde-fuchsin

For staining, in tissue sections, the elastic fibres and secretion granules in alpha and beta cells of the islands of Langerhans in endocrine pancreas.

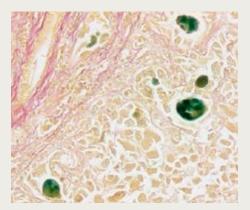
Number of test	100
Procedure time	1 h 15 minutes
Product validity	2 years
Storage temperature	15-25°C

# Result

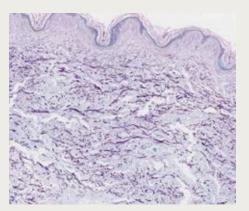
Beta cells granules	dark violet
0	
Cells nuclei	dark violet
Background	red
Connective tissue	green
	Broom

HISTOLOGY\_ Staining General catalogue

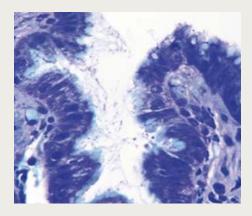
# **Fouchet-Van Gieson**



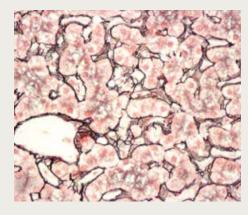
# Fuchsin Paraldehyde



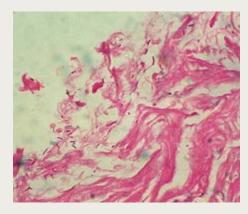
# Giemsa



**Gordon-Sweet** 



Gram



HISTOLOGY\_ Staining General catalogue

# PRODUCT AND APPLICATION

CODE

Giemsa for Helicobacter pylori 04-090803 Method for staining Helicobacter pylori in gastric biopsy sections. Thanks to staining mixture composition (in terms of both quality and quantity) as well as the accurate differentiation, selective bacteria identification against an especially clean background is possible. Number of test 75 Procedure time 1 h Product validity 2 years 15 - 25°C Storage temperature Result Helicobacter pylori blue, in form of seagull's wing Nuclei blue Cytoplasm pink PRODUCT AND APPLICATION CODE **Gordon-Sweet for reticulum** 04-040802 Recommended method for staining argyrophilic reticular fibres in the connective tissue. 100 Number of test Procedure time 40 minutes Product validity 1 year 2-8°C Storage temperature Result Reticular and nervous fibers black Nuclei red PRODUCT AND APPLICATION CODE Gram staining for bacteria 04-100802 Method for distinguishing Gram-positive and Gram-negative bacteria in histological sections, smears and tissue appositions. Number of test 100 Procedure time 40 minutes

#### Result

Product validity

Storage temperature

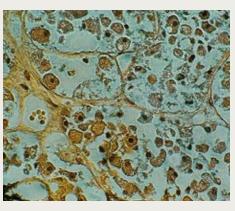
Gram-positive bacteria	blue
Gram-negative bacteria	red
Nuclei	red

2 years 15 - 25°C



PRODUCT AND APPLICATION		CODE
Grimelius method for argyrophilic	reaction	04-044822
for microwave oven		04-044822W
For staining argyrophilic substances	s in tissue sections and	
appositions.		
Number of test	100	
Procedure time	3 h 35 minutes	
	(20 minutes with microwave oven)	
Product validity	1 year	
Storage temperature	2-8°C	
Result		
Argyrophilic granules	from light brown to black	
PRODUCT AND APPLICATION		CODE
Grocott for fungi		04-043823
for microwave oven		04-043823W
for microwave oven Method used for staining fungi in tia	ssue sections.	04-043823W
	ssue sections.	04-043823W
	ssue sections. 120	04-043823W
Method used for staining fungi in ti		04-043823W
Method used for staining fungi in the Number of test	120	
Method used for staining fungi in the Number of test	120 1 h 50 minutes	
Method used for staining fungi in the Number of test Procedure time	120 1 h 50 minutes (50 minutes with microwave oven)	
Method used for staining fungi in til Number of test Procedure time Product validity	120 1 h 50 minutes (50 minutes with microwave oven) 1 year	
Method used for staining fungi in til Number of test Procedure time Product validity	120 1 h 50 minutes (50 minutes with microwave oven) 1 year	
Method used for staining fungi in ti Number of test Procedure time Product validity Storage temperature	120 1 h 50 minutes (50 minutes with microwave oven) 1 year	
Method used for staining fungi in tis Number of test Procedure time Product validity Storage temperature Result	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C	
Method used for staining fungi in tis Number of test Procedure time Product validity Storage temperature Result Fungi	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black	
Method used for staining fungi in the Number of test Procedure time Product validity Storage temperature <b>Result</b> Fungi Mucines	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black dark grey	
Method used for staining fungi in the Number of test Procedure time Product validity Storage temperature <b>Result</b> Fungi Mucines Background	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black dark grey	
Method used for staining fungi in the Number of test Procedure time Product validity Storage temperature <b>Result</b> Fungi Mucines	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black dark grey	
Method used for staining fungi in the Number of test Procedure time Product validity Storage temperature Result Fungi Mucines Background PRODUCT AND APPLICATION	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black dark grey green	CODE
Method used for staining fungi in tie Number of test Procedure time Product validity Storage temperature <b>Result</b> Fungi Mucines Background PRODUCT AND APPLICATION <b>Bovine testicular hyaluronidase for</b>	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black dark grey green r enzymatic digestion	
Method used for staining fungi in the Number of test Procedure time Product validity Storage temperature Result Fungi Mucines Background PRODUCT AND APPLICATION	120 1 h 50 minutes (50 minutes with microwave oven) 1 year 2 - 8°C sharply delineated in black dark grey green r enzymatic digestion ronidase is recommended for	CODE

Grimelius



Grocott for fungi	04-043823
for microwave oven	04-043823W
Method used for staining fungi in tissue sections.	

Number of test	120	
Procedure time	1 h 50 minutes	
	(50 minutes with microwave oven)	
Product validity	1 year	
Storage temperature	2-8°C	
Result		

Result	
Fungi	sharply delineated in black
Mucines	dark grey
Background	green

chondroitin sulphate A and B.

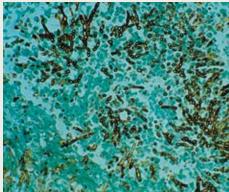
Number of test	10
Procedure time	1 h
Product validity	1 year
Storage temperature	2-8°C

## Result

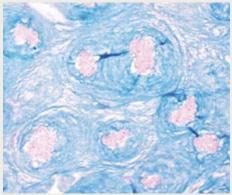
The failure to stain the specimen section through Alcian Blue has to be related to the presence of hyaluronic acid or chondroitin sulphates.



# Grocott

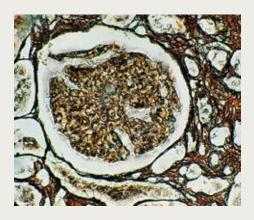


# Hyaluronidase

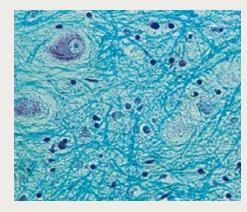


HISTOLOGY\_ Staining General catalogue

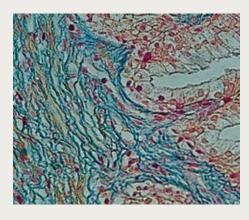
#### **Silver impregnation**



Luxol fast blue



**Mallory Trichrome** 



HISTOLOGY\_ Staining General catalogue

### PRODUCT AND APPLICATION

04-040801 Silver impregnation for reticulum Recommended method for staining argyrophilic reticular fibres in the connective tissue. Number of test 100 Procedure time 35 minutes Product validity 1 year 2-8°C Storage temperature Result Reticular and nervous fibers black Connective tissue tobacco brown Collagen gold yellow PRODUCT AND APPLICATION CODE Klüver Barrera Luxol fast blue 04-200812 Recommended method for staining myelin and phospholipids in histological sections. 100 Number of test Procedure time 20 minutes + overnight Product validity 2 years 15-25°C Storage temperature Result Myelin turquoise blue Neurons and glial nuclei pink to violet Nissl substance pale pink PRODUCT AND APPLICATION CODE Mallory trichrome staining 04-020802 Reference method for staining connective tissue in histological sections. It is especially suitable for staining collagen, reticulum, cartilage, bones, amyloid. Number of test 100 Procedure time 20 minutes Product validity 2 years Storage temperature 15-25°C Result Collagen fibrils deep blue Nuclei, myofibrils, neuroglia fibrils, red cartilage, bone Erythrocytes, myelin gold yellow

pale pink, yellow or unstained

CODE



Elastic fibrils

PRODUCT AND APPLICATION	

.

CODE

Masson Fontana for melanin	04-041822
for microwave oven	04-041822W

Preferred method for observing the melanotic pigment in histological tissue sections.

Number of test	100 (25 assays for microwave oven)	
Procedure time	45 minutes + overnight	
	(20 minutes with microwave oven)	
Product validity	1 year	
Storage temperature	2-8°C	
Result		
Melanin	black	

PRODUCT AND APPLICATION

Nuclei

CODE

04-010802

# Masson trichrome staining with aniline blue

Preferred method for connective tissue, especially suitable for gametes, nuclei, neurofibrils, neuroglia, collagen, keratin, intracellular fibrils and Golgi apparatus negative images.

red

Number of test	100	
Procedure time	35 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		

Nuclei and gametes	black
Cytoplasm, keratin, muscle fibres, acidophil granules	red
Collagen, mucus, basophil granules of hypophysis	blue
Delta cells granules of hypophysis	blue
Frythrocytes	vellow

PRODUCT AND APPLICATION

CODE

Bio - Optica

04-011802

#### Masson-Goldner trichrome (light green) staining

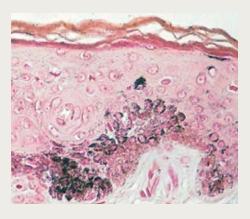
Preferred method for connective tissue, suitable for gametes, nuclei, neurofibrils, neuroglia, collagen, keratin, intracellular fibrils and Golgi apparatus negative image.

Number of test	100
Procedure time	35 minutes
Product validity	2 years
Storage temperature	15-25°C

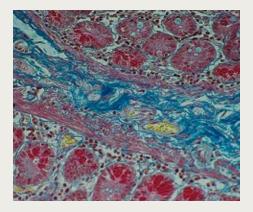
Result

Nuclei and gametes	black
Cytoplasm, keratin, muscle fibres, acidophil granules	red
Collagen, mucus, basophil granules of hypophysis	green
Delta cells granules of hypophysis	green
Erythrocytes	yellow

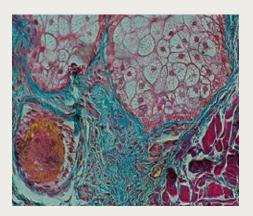
#### **Masson Fontana**



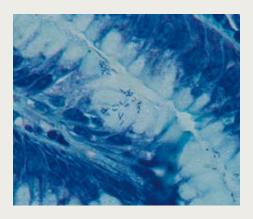
### **Masson Trichrome**



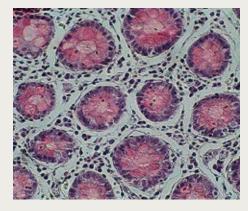
# **Masson Trichrome Goldner**



#### May Grünwald Giemsa



Mucicarmine



Nitro blue tetrazolium

# PRODUCT AND APPLICATION

 May Grünwald Giemsa for sections
 04-081802

 Preferred method for distinguishing cell types and staining parasites
 in tissue sections; especially suitable for lymphohematopoietic

 tissues. This staining method is often used for identifying endothelial reticulum.
 Image: Comparison of test imag

n	court	
Ν	uclei	blue
Ba	asophil cytoplasm	from pale blue to dark blue
A	cidophil cytoplasm	pink
B	acteria	blue

PRODUCT AND APPLICATION

CODE

04-190812

CODE

#### • Mayer's Mucicarmine

Recommended method for staining epithelial acid mucopolysaccharides (mucins) in histological sections. The use of Mucicarmine has a low level of specificity: indeed, generally mucins from fibroblasts are stained poorly.

Number of test	100
Procedure time	50 minutes
Product validity	1 year
Storage temperature	15-25°C

# Result

Mucins	deep pink to red
Nuclei	blue-violet
Other components	orange

PRODUCT AND APPLICATION

CODE

04-253031

• Nitro blue tetrazolium

For staining the areas affected by a heart attack: the ischaemic muscle can be stained, showing the loss of oxidative activity thanks to the nitro blue tetrazolium staining of the fresh specimen.

Number of test	15
Procedure time	30 minutes
Product validity	2 years
Storage temperature	2-8°C

#### Result

HISTOLOGY\_ Staining

**General catalogue** 

The infarcted areas are not stained



PRODUCT AND APPLICATION

#### Oil red O .

Nuclei

For staining lipids on cryostat tissue sections. Fixation: we recommend using saline formalin or Baker's fixative to prevent phospholipid dissolution.

blue

Number of test	100
Procedure time	25 minutes
Product validity	2 years
Storage temperature	15-25°C
Result	
Lipids	red

PRODUCT AND APPLICATION

CODE

Bio - Optica

CODE

04-220923

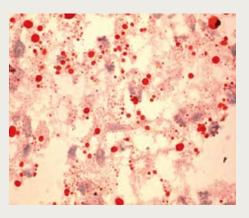
Orcein for elastic fibres		04-055802
Identification of elastic fibres in tissue sections.		
Number of test	100	
Procedure time	30 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		

Elastic fibers	brown-purplish red
Background	almost colourless

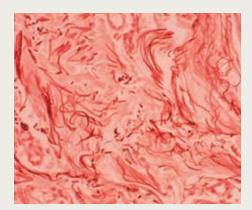
PRODUCT AND APPLICATION		CODE
P.A.S. Periodic Acid Schiff ac	cording to Hotchkiss - MC Manus	04-130802
For staining normal or patholo	gical tissue components through	
adjacent aminohydroxyl or glyd	colic groups.	
Number of test	100	
Procedure time	30 minutes	
Product validity	1 year	
Storage temperature	2-8°C	
Result		

Positive P.A.S. substances	magenta red
Nuclei	blue

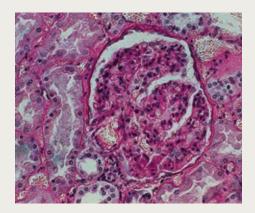
Oil red 0



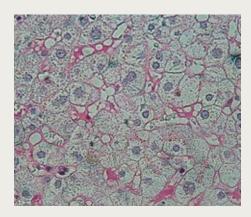
# Orcein



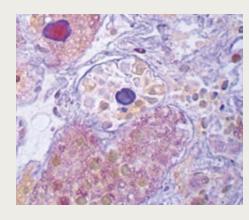
P.A.S. Periodic Acid Schiff



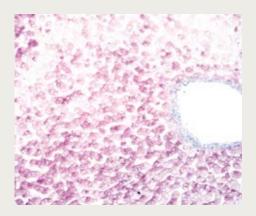
# P.A.S. - A



P.A.S. Pearse



#### **P.A.S. Picro Indigo Carmine**



HISTOLOGY\_ Staining General catalogue

#### PRODUCT AND APPLICATION CODE P.A.S. - A Periodic Acid Schiff - Amylase 04-130803 Preferred method for revealing the presence of glycogen in fixed sections of hepatic tissue or in frozen specimens of muscular tissue. Number of test 100 Procedure time 60 minutes Product validity 1 year 2-8°C Storage temperature Result Positive P.A.S. substances magenta red Nuclei blue PRODUCT AND APPLICATION CODE P.A.S. Pearse 04-132802 P.A.S. reaction recommended for distinguishing alpha and beta hypophysis cells. 100 Number of test 60 minutes Procedure time Product validity 1 year Storage temperature 2-8°C Result P.A.S. positive substances red purple Nuclei dark-brown Alpha cells granules and orange erytrocytes, cytoplasm, red cells Gamma cells granules purplish violet PRODUCT AND APPLICATION CODE 04-131802 P.A.S. Picro Indigo Carmine, Morel - Maronger modified Method suitable for observing simultaneously neutral mucopolysaccharides and connective tissue in tissue sections. 100 Number of test Procedure time 45 minutes Product validity 1 year

#### Result

Storage temperature

P.A.S. positive substances	magenta red
Connective tissue	blue green
Muscle, horny layer of the skin,	yellow-green
neuroglia fibers and erytrocytes	

2-8°C



PRODUCT AND APPLICATION

blood and bone marrow smears.

Perls method for ferric iron

Number of test

Procedure time

Product validity

Result

Nuclei

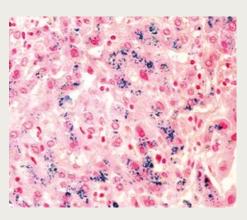
Storage temperature

Reactive ferric iron

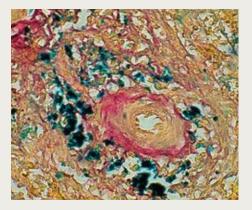
CODE

04-180807

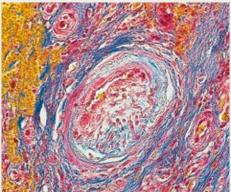
# **Perls**



Perls - Van Gieson



# **Picro Mallory Trichrome**





HISTOLOGY\_ Staining **General catalogue** 

#### PRODUCT AND APPLICATION

CODE

CODE

04-021822

04-181807

Perls - Van Gieson method for connective tissue and ferric iron • Method suitable for observing simultaneously reactive ferric iron, collagen and connective tissue in tissue sections.

Method suitable for observing reactive ferric iron in tissue sections and

60

35 minutes

15-25°C

2 years

blue

red

Number of test	100
Procedure time	35 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

Reactive ferric iron	blue	
Collagen	purple red	
Cytoplasm, muscle, horny	yellow	
layer of the skin, neuroglia an		
erythrocytes		

PRODUCT AND APPLICATION

#### **Picro Mallory trichrome staining**

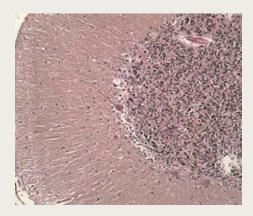
Tichrome staining especially recommended for connective tissue sections.

Number of test	100	
Procedure time	40 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Nuclei	dark brown	
Collagen fibers	dark blue	

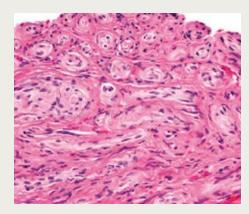
Collagen fibers	dark blue
Ground substance of cartilage,	varying shades of blue
bone, mucus, basophil granules of	
hypophysis and amyloid	
Fibroglia, neuroglia, axis cylinders	red
and fibrine	
Acidophil granules of hypophysis	orange
Myelin and erythrocytes	yellow
Elastic fibers	from pale pink to yellow



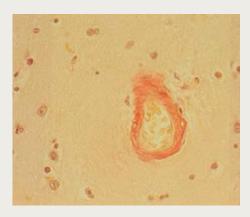
#### P.T.A.H.



#### **Rapid frozen sections**



**Congo Red** 



HISTOLOGY\_ Staining **General catalogue** 

PRODUCT AND APPLICATION
-------------------------

CODE P.T.A.H. Phosphotungstic acid hematoxylin 04-060802 This method was originally developed for staining the neuroglia. Nowadays, it is used for distinguishing smooth and striated muscle tissues (staining the isotropic bands of skeletal muscle myofibrils). It is also used for fibrin. Number of test 100 13 minutes + overnight Procedure time 2 years Product validity 15 - 25°C Storage temperature Result Nuclei, fibrins (for a great part) dark blue myofibrils, astrocytes, some elastic fibers, neuroglia, myelin fibers Collagen, bone matrix, cartilage rick red in various tonalities PRODUCT AND APPLICATION CODE Rapid frozen sections H&E staining kit 04-061010 Kit for rapid H&E staining for frozen sections (6 micron thickness). 100 Number of test Procedure time 3 minutes Product validity 2 years 15 - 25°C Storage temperature Result Nuclei blue Cytoplasm, connective tissue various shades of pink PRODUCT AND APPLICATION CODE Congo Red staining according to Highman 04-210822 Method for staining amyloid in tissue sections. Number of test 100 Procedure time 35 minutes Product validity 2 years

# Result

Storage temperature

Amyloid         brick red, birefringent in polarized light           Nuclei         blue		
Nuclei blue	Amyloid	brick red, birefringent in polarized light
	Nuclei	blue

15-25°C



PRODUCT AND APPLICATION

Sirius Red
Method for amyloid staining in formalin fixed and paraffin embedded
tissues.

Number of test	100
Procedure time	1 h 15 minutes
Product validity	2 years
Storage temperature	15-25°C
Result	
Amyloid	pink- red

Nuc	loi	
INUC	IEI	

PRODUCT AND APPLICATION

CODE

CODE

04-121873

CODE

04-210923

#### Picro Sirius Red

Method suitable for staining collagen fibres and bile pigments in tissue sections.

blue

Number of test	100	
Procedure time	60 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Collagen fibers	red	

Collagen fibers	red
Bilirubin	green
Nuclei	blue
Erythrocytes	red

PRODUCT AND APPLICATION

 Periodic acid-silver methenamine (P.A.S.M.)
 04-043822

 for microwave oven
 043822W

 Method used for staining mucopolysaccharidic and argyrophilic
 elements (basal membranes, mycetes, bacteria, etc.) in tissue

 sections. Preferred method for studying basal membranes in kidney
 biopsy.

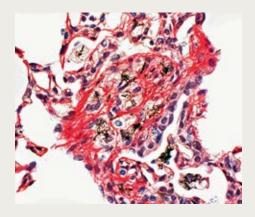
Number of test	100 (120 test for microwave oven)
Procedure time	1 h 15 minutes (45 minutes for microwave oven)
Product validity	1 year
Storage temperature	2-8°C

#### Result

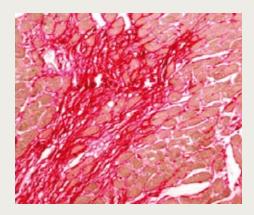
Basement membranes, glycogen, black mycetes and bacterial capsule

Bio-Optica

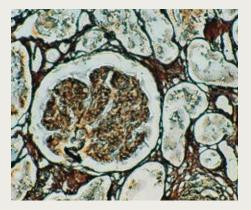
Sirius Red



# **Picro Sirius Red**



**Silver methenamine** 



# **Sodium Rhodizonate**

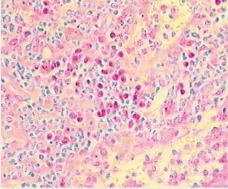
Bio - Optica

	PRODUCT AND APPLICATION		CODE
	Sodium Rhodizonate		04-182809
	Method recommended for staining	glead in tissue sections.	
	Number of test	25	
	Procedure time	1 h 5 minutes	
	Product validity	2 years	
	Storage temperature	15-25°C	
	Result		
	Lead	black	
	Background	green	
	PRODUCT AND APPLICATION		CODE
	• Van Gieson trichrome staining		04-030802
	Preferred method for connective ti	ssue, especially recommended for	
	staining collagen fibres distinguish	ing them from the connective tissue.	
	Number of test	100	
5	Procedure time	35 minutes	
	Product validity	2 years	
	Storage temperature	15-25°C	
	Result		
	Nuclei	black	
	Collagen fibers	purplish red	
	Cytoplasm, smooth and striated	yellow	
	muscle, cornified epithelium,		
	neuroglia and erythrocytes		
	PRODUCT AND APPLICATION		CODE
	PRODUCT AND APPLICATION     Methyl green pyronin		CODE 04-121812
		neously staining DNA and RNA in	
	Methyl green pyronin     Method recommended for simulta	neously staining DNA and RNA in itable for staining plasma cells and	
	Methyl green pyronin     Method recommended for simulta	itable for staining plasma cells and	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su	itable for staining plasma cells and	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su	itable for staining plasma cells and	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy	itable for staining plasma cells and tological preparations.	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy     Number of test	itable for staining plasma cells and tological preparations.	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy     Number of test     Procedure time	itable for staining plasma cells and tological preparations. 100 45 minutes	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy     Number of test     Procedure time     Product validity     Storage temperature	itable for staining plasma cells and tological preparations. 100 45 minutes 2 years	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy     Number of test     Procedure time     Product validity     Storage temperature     Result	itable for staining plasma cells and tological preparations. 100 45 minutes 2 years 15 - 25 ° C	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy     Number of test     Procedure time     Product validity     Storage temperature      Result     DNA	itable for staining plasma cells and tological preparations. 100 45 minutes 2 years 15 - 25 ° C pale green	
	Methyl green pyronin     Method recommended for simulta     histological sections. Especially su     RNA in histological sections and cy     Number of test     Procedure time     Product validity     Storage temperature     Result	itable for staining plasma cells and tological preparations. 100 45 minutes 2 years 15 - 25 ° C	





# Methyl green pyronin



PRODUCT AND APPLICATION

CODE

Verhoeff		04-056802
Method for staining elastic fib	res in sections. Especially re	commended
for vascular pathology.		
Number of test	100	
Procedure time	1 h	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Elastic fibers and nuclei	black	
Collagen	red	

yellow

# PRODUCT AND APPLICATION

Other tissutal elements

CODE

Von Kossa method for calciu	m	04-170801
Method recommended for sta	ining calcium ions in histological	
sections.		
Number of test	100	
Procedure time	1 h 25 minutes	
Product validity	1 year	
Storage temperature	2-8°C	
Result		
Sites calcium deposits	black	
Nuclei	red	

PRODUCT AND APPLICATION

CODE

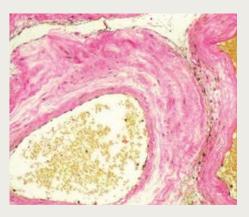
Bio - Optica

04-040903

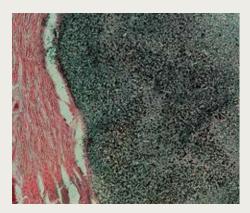
•	Warthin-Starry method for spirochetes
	Method for spirochete staining.

Number of test	40	
Procedure time	1 h 45 minutes	
Product validity	1 year	
Storage temperature	darkness, 2 - 8°C	
Result		
Spirochetes and other	black	
microorganisms		
Background	golden brown	

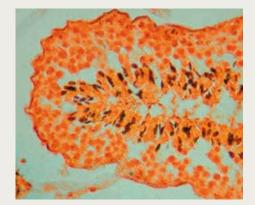
# Verhoeff



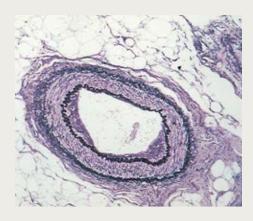
# Von Kossa



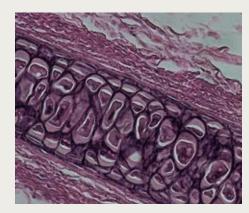
# Warthin-Starry



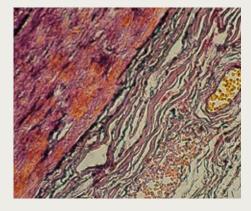
# Weigert



Weigert



Weigert Van Gieson



# HISTOLOGY\_ Staining General catalogue

PRODUCT AND APPLICATION

CODE

04-050802

• Weigert for elastic fibers (long method) Method for staining elastic fibers in histological sections.

Number of test	100
Procedure time	Overnight + 25 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

Elastic fibers

from dark blue to black

PRODUCT AND APPLICATION		CODE
Weigert for elastic fibers (qu	uick method)	04-052812
Method for staining elastic fil	bers in histological sections, especially	
suitable for vascular patholog	gy.	
Number of test	100	
Procedure time	60 minutes	
Product validity	2 years	
Storage temperature	15-25°C	
Result		
Elastic fibers	purplish red-brown	
Nuclei		
PRODUCT AND APPLICATION	red	CODE
	rea	CODE
PRODUCT AND APPLICATION		
PRODUCT AND APPLICATION	red	CODE 04-051802
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method)		
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou	tic fibres and connective tissue	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou	tic fibres and connective tissue	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F	<b>tic fibres and connective tissue</b> usly staining elastic fibres, connective Recommended for vascular pathology.	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F Number of test	tic fibres and connective tissue usly staining elastic fibres, connective Recommended for vascular pathology. 100	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F Number of test Procedure time	tic fibres and connective tissue usly staining elastic fibres, connective Recommended for vascular pathology. 100 50 minutes + overnight	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F Number of test Procedure time Product validity	tic fibres and connective tissue usly staining elastic fibres, connective Recommended for vascular pathology. 100 50 minutes + overnight 2 years	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F Number of test Procedure time Product validity Storage temperature	tic fibres and connective tissue usly staining elastic fibres, connective Recommended for vascular pathology. 100 50 minutes + overnight 2 years	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F Number of test Procedure time Product validity Storage temperature Result	tic fibres and connective tissue usly staining elastic fibres, connective Recommended for vascular pathology. 100 50 minutes + overnight 2 years 15 - 25 ° C	
PRODUCT AND APPLICATION Weigert Van Gieson for elas (long method) Method used for simultaneou tissue, collagen and nuclei. F Number of test Procedure time Product validity Storage temperature Result Elastic fibers	tic fibres and connective tissue usly staining elastic fibres, connective Recommended for vascular pathology. 100 50 minutes + overnight 2 years 15 - 25 ° C from dark blue to black	

Connective tissue, erythrocytes yellow



PRODUCT AND APPLICATION

CODE

04-053812

• Weigert Van Gieson for elastic fibers and connective tissue (quick method)

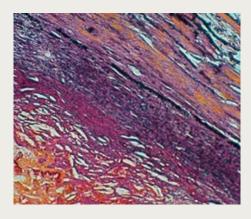
Method used for simultaneously staining elastic fibers, connective tissue, collagen and nuclei. Recommended for vascular pathology.

Number of test	100
Procedure time	1 h 20 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

Elastic fibers	from purplish red to brown
Nuclei	black
Collagen	various shades of red
Connective tissue, erythrocytes	yellow

Weigert Van Gieson



PRODUCT AND APPLICATION

CODE

•	Wilson's Disease Staining method for copper	04-182807
	for microwave oven	04-182807W
	Mathed recommended for staining conner in tionus costions	

Method recommended for staining copper in tissue sections.

Number of test	100
Procedure time	3 h 15 minutes (15 minutes for microwave oven)
Product validity	2 years
Storage temperature	15-25°C

#### Result

Copper	red, red-orange
Nuclei	blue

PRODUCT AND APPLICATION

CODE

Bio - Optica

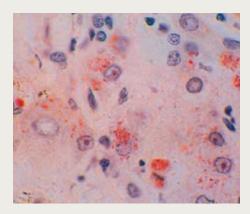
Ziehl-Neelsen for mycobacteria	04-110802
For staining pathogenic mycobacteria, especially for Koch's bacillus, in	
histology sections, sputum smears, cultures and appositions.	

Number of test	100
Procedure time	50 minutes
Product validity	2 years
Storage temperature	15-25°C

Result	
Koch's bacillus and other acid	red
resistant elements	
Nuclei	blue

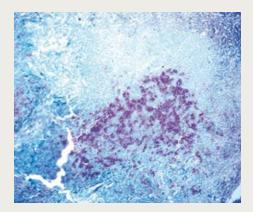
HISTOLOGY\_ Staining General catalogue

# Wilson's Disease Stain



# **Ziehl-Neelsen**

# **Ziehl-Neelsen Fite**



#### PRODUCT AND APPLICATION

• Ziehl-Neelsen Fite for mycobacteria 04-111802 For staining pathogenic mycobacteria, especially for Koch and Hansen bacillus, in histology sections, sputum smears, cultures and appositions.

Number of test	100
Procedure time	45 minutes
Product validity	2 years
Storage temperature	15-25°C

CODE

#### Result

Koch' s bacillus, Hansen bacillus	red
and other acid resistant elements	
Background	blue





# Kits and solutions for enzyme histochemistry

Microscope examination of muscular biopsy sections is essential for the diagnosis of neuromuscular pathologies.

Any laboratory carrying out enzyme histochemical tests on muscular biopsies faces several problems:

- extremely high toxicity of some reagents
- standardization of difficult and complex solutions
- solution storage at -20°C
- repeatability of results

For finding a solution to all these issues, Bio-Optica has developed ready-to-use kits for enzyme histochemical staining.

Enzyme histochemical kits overcome the difficulties and risks relating to the preparation of staining solutions, ensuring repeatable results.

PRODUCT AND APPLICATION

Result

CODE

Bio - Optica

# **ATPase**



Roount		
Nuclei	blue	
10.4 Section – preincuba	ion at pH 10.4	
Type 1 fibers	beige/white	
Type 2A fibers	brown/black	
Type 2B fibers	brown/black	
4.7 Section – preincubation at pH 4.7		
Type 1 fibers	brown	
Type 2A fibers	beige/white	
Type 2B fibers	brown/black	
4.3 Section – preincubation at pH 4.3		
Type 1 fibers	brown	
Type 2A fibers	beige/white	
Type 2B fibers	beige	



	PRODUCT AND APPLICATION		CODE
•	Cytochrome C oxidase		30-30115LY
	Cytochrome C oxidase activity ass	ay.	
	Result		
	Cytocrome C Oxidase activity	beige	

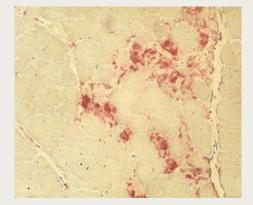
**Cytocrome C Oxidase** 



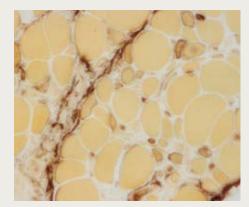
# **Non-specific Esterase**



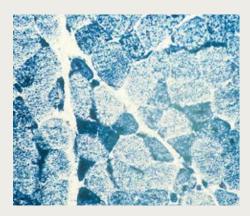
# Acid phosphatase



# **Alkaline phosphatase**



# Phosphofructokinase



HISTOLOGY\_ Staining General catalogue PRODUCT AND APPLICATION

# Non-specific Esterase

Staining of esterase positive activity of enzymes in denervated fibres.

#### Result

Angular atrophic fibers	beige
Neuromuscural junction	brown
Lipofucsin	brown
Lysosomal activity	brown

	PRODUCT AND APPLICATION	CODE	
)	Acid phosphatase		30-30118LY
	Staining of acid phosphatase enzyn	hatic activity.	
	It can be found in macrophages and lysosomes; it characterises		
	regeneration and necrosis phenomena.		
	Result		
	Positive acid phosphatase	red	
	enzymatic activity		
	Background and nucleus	green	

PRODUCT AND APPLICATION		CODE
Alkaline phosphatase		30-30121LY
Assessment of alkaline phosphatas	se enzymatic activity.	
It is very useful for identifying phagocytosis and inflammatory areas in		
muscle biopsies.		
Result		
Positive alkaline phosphatase	black	
enzymatic activity		
Background	ochre vellow	

PRODUCT AND APPLICATION	CODE
Phosphofructokinase (PKF)	30-30117LY
To show PFK enzymatic activity. This procedure is used to determine	
if a glycogen-storage disease is due to a lack of PFK activity or about	
other enzymes necessary for the metabolism of glycogen.	
	Phosphofructokinase (PKF) To show PFK enzymatic activity. This procedure is used to determine if a glycogen-storage disease is due to a lack of PFK activity or about

# Result

Positive PFK activity	dark blue



30-30122LY

PRODUCT AND APPLICATION

Myoadenylate deaminase

Positive Myoadenylate deaminase blue

#### • Phosphorylase

Staining of phosphorylase enzymes involved in glycogenolysis.

#### Result

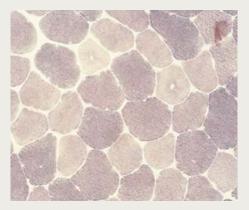
.

Result

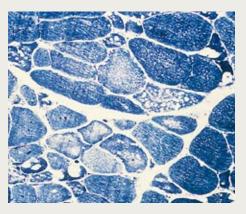
enzymatic activity

Phosphorylase enzymes activity various tones of blue

Staining of the enzymatic activity of myoadenylate deaminase.



# Myoadenylate deaminase



PRODUCT AND APPLICATION

CODE

30-30113LY

CODE

CODE

30-30116LY

30-30123LY

#### • Diaphorase (NADH)

Assessment of NADH activity. This stain is used to distinguish between type 1 and type 2 muscular fibres, and is often connected to ATPase investigation.

#### Result

Positive NADH diaphorase	grey-blue
enzimatic activity	
Type 1 fibers	dark blue
Type 2 fibers	light blue

PRODUCT AND APPLICATION

CODE

30-30114LY

# Succinic dehydrogenase

Assessment of the enzymatic activity of succinic dehydrogenase (SDH), mainly reported in mitochondria.

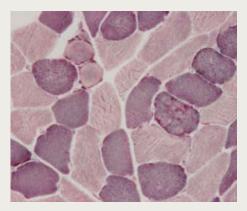
#### Result

Positive SDH activity

grey-blue



# **NADH Diaphorase**

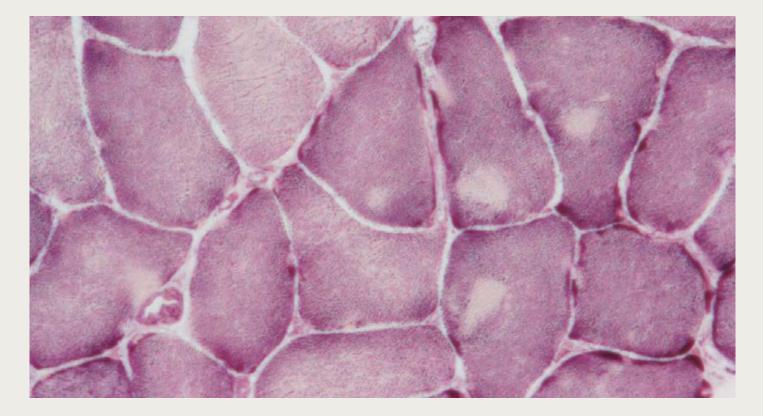


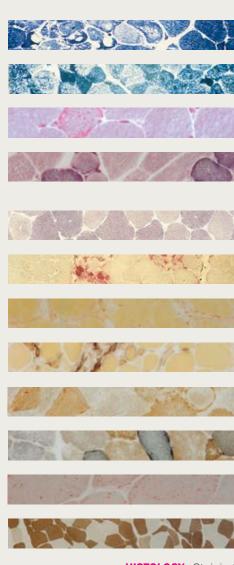
#### Succinic dehydrogenase



HISTOLOGY\_ Staining General catalogue

p\_69/124





HISTOLOGY\_ Staining General catalogue

# Enzyme histochemical kit

This kit includes all enzyme histochemical reactions, for a total of 10 kits.

PACKAGING	CODE
10 Kits	30-30130LY

# Fixatives for enzyme histochemistry

PRODUCT	PACKAGING	DESCRIPTION	CODE
Backer fixative	1x500 ml	For Red Oil O stain	30-30111
Acid phosphatase	1x100 ml	For enzyme histochemical stain	30-30120
fixative		with acid phosphatase	

# Staining solutions for enzyme histochemistry

PRODUCT	PACKAGING	DESCRIPTION	CODE
Oil Red O solution Methyl green buffered solution	1x100 ml 1x100 ml	Specific stain for lipids Nuclear green stain	30-30112 30-30119
Trichrome stain Gomori	1x100 ml	Differentiating stain of muscle and components of connective tissue	30-30110

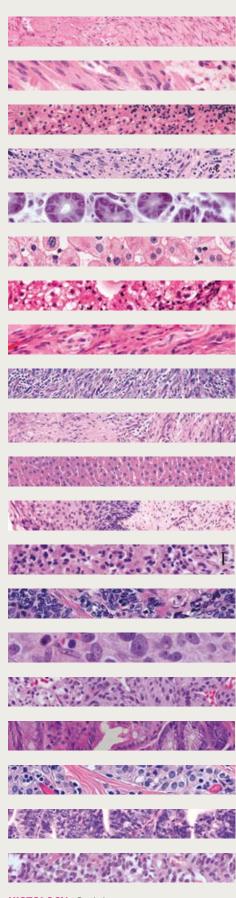


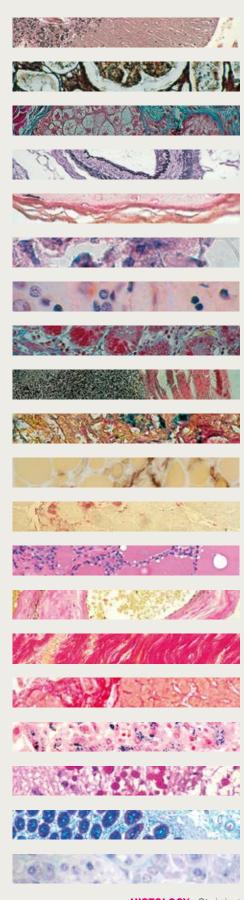
# Hematoxylins

Bio-Optica provides operators with a wide range of nuclear stains; all solutions are stable and guarantee excellent cell details.

	PRODUCT AND DESCRIPTION	PACKAGING	CODE
	Meyer Hemelum	1x500 ml	05-M06002
•	Mayer Hemalum	1x1	
	Medium intensity stain		05-06002/L
		1x2,5	05-06002E
		4x2,5 l	05-06002Q
•	Harris Hematoxylin for histology	1x500 ml	05-M06004
	Stain with high concentration of Hematoxylin	1x1	05-06004/L
	5	1x2,5	05-06004E
		4x2,51	05-060040
			00 0000 .q
•	Carazzi Hemalum	1x500 ml	05-M06012
	Low concentration of Hematoxylin	1x1	05-06012/L
•	Gill 1 Hematoxylin	1x500 ml	05-M06013
	Similar to Carazzi Hemalum	1x1	05-06013/L
		1x2,5 I	05-06013E
		4x2,5 I	05-06013Q
٠	Gill 2 Hematoxylin	1x500 ml	05-M06014
	Similar to Mayer Hemalum	1x1	05-06014/L
		1x2,5 I	05-06014E
		4x2,5l	05-06014Q
	Gill 3 Hematoxylin	1x500 ml	05-M06015
	Similar to Harris Hematoxylin for histology	1x1	05-06015/L
	enniar to harns hernatoxynn for histology	1x2,51	05-06015E
		4x2,51	05-06015Q
		472,31	03-000130
•	Weigert iron hematoxylin solution A	1x150 ml	05-B06008/A
	For trichrome stains	1x1	05-06008A/L
•	Weigert iron hematoxylin solution B	1x150 ml	05-B06008/B
	For trichrome stains	1x1	05-06008B/L
٠	P.T.A.H Phosphotungstic hematoxylin	1x150 ml	05-B10017
	Reagent for detection of neuroglia and muscular	1x1	05-10017/L
	tissue		
	Delafied Hematoxylin	1x150 ml	05-B06006
	Specific for vegetal tissue		03-800000
	Specific for vegetal tissue		
•	Heidenhain Hematoxylin	1x150 ml	05-B06010
	For cellular details		
•	Regaud Hematoxylin	1x150 ml	05-B06007
	For studies of nuclear morphology	1x500 ml	05-M06007







HISTOLOGY\_ Staining General catalogue

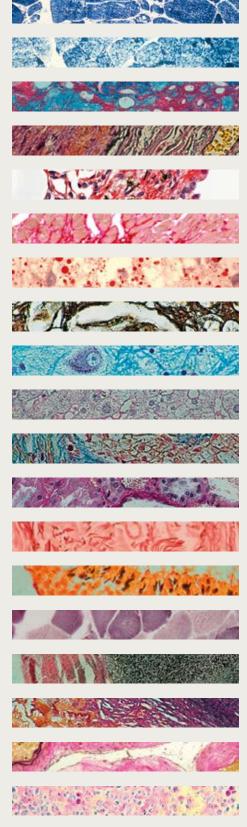
# **Solutions for histology**

Recently, laboratories have been increasing the use of ready-to-use staining solutions. Besides providing significant functional benefits (safety, time saving, work load reduction, simplified test cost assessment), the ready-to-use solutions by Bio-Optica also allow labs to obtain excellent and repeatable results, which is essential for meeting the needs of high quality standards.

PRODUCT AND DESCRIPTION	PACKAGING	CODE
Alcian Blue pH 0,5 Mowry	1x500 ml	05-M26006
To demostrate only strongly sulfured mucins		
Alcian Blue pH 1 Mowry	1x150 ml	05-B26005
To demostrate only strongly sulfured mucins	1x500 ml	05-M26005
Alcian Blue pH 2,5 Mowry	1x150 ml	05-B26003
For evidencing acid mucopolysaccharides	1x500 ml	05-M26003
	1x1	05-26003/L
Alcian Blue pH 3.1 Mowry	1x150 ml	05-B26002
For evidencing acid mucopolysaccharides	1x500 ml	05-M26002
Acridine Orange solution	1x150 ml	05-B07013
Detects microrganisms		
Orange G solution Pearse	1x150 ml	05-B29003
To show alpha and beta cells of the hypophysis		
Auramine-Phenol	1x150 ml	05-B07016
Detection of Cryptosporidium oocysts		
Auramine-Rhodamine solution	1x150 ml	05-B07014
Detection of mycobacteria		
Azocarmine Heidenhain	1x150 ml	05-B07001
Nuclear stain for the Azan method		
Astra Blue pH 2.5	1x150 ml	05-B26012
For evidencing acid mucopolysaccharides		
Aniline blue Masson	1x150 ml	05-B10006
For collagen, mucus, basophil granules of		
hypophysis and delta cells granules of hypophysis		
Aniline blue - Orange G Heidenhain	1x150 ml	05-B10001
Polychrome solution for Azan trichrome staining		
Aniline Blue - Orange G Mallory	1x150 ml	05-B10009
for a selective collagen staining by aniline blue		
and for evidencing cytoplasm by Orange G		
Brilliant Cresyl Blue	1x150 ml	05-B14002
Vital stain for reticulocyte counts		
Lactophenol Cotton Blue	1x150 ml	05-B14004
For detection of fungi		
New Methylene Blue	1x150 ml	05-B14003
Identification of reticulocyte and parasites		
Methylene Blue Loeffer	1x150 ml	05-B20009
Counterstain for acid fast bacteria	1x500 ml	05-M20009
		05 00000 //
	1x1	05-20009/L
Methylene Blue solution - Ziehl Neelsen	1x1 l 1x150 ml	05-B20003
Methylene Blue solution - Ziehl Neelsen Counterstain used in the Ziehl Neelsen method		,
Counterstain used in the Ziehl Neelsen method	1x150 ml 1x500 ml 1x1 l	05-B20003 05-M20003 05-20003/L
-	1x150 ml 1x500 ml	05-B20003 05-M20003

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	PRODUCT AND DESCRIPTION	PACKAGING	CODE
•	Mayer's carmalum	1x150 ml	05-B07009
	For nuclear staining		
•	Acetic carmine solution	1x150 ml	05-B13001
	For chromosome staining		
•	Cresyl violet Klüver Barrera	1x150 ml	05-B16001
	For evidencing neurons and glial nuclei	1x1	05-16001/L
•	Cresyl Violet Moore	1x150 ml	05-B14001
	For staining of sexual chromatin		
•	Cresyl Violet Vogt	1x150 ml	05-B16002
	For PAS-positive substance in nervous tissue		
•	Crystal violet solution Gram	1x150 ml	05-B20005
	For Gram-positive bacteria		
•	Metachromatic Crystal Violet	1x150 ml	05-B31001
	Stain for amyloid		
•	Eosin Y 1% aqueous solution	1x500 ml	05-M10002
	For cytoplasm staining	1x1	05-10002/L
		1x2,5	05-10002E
		4x2,5	05-10002Q
•	Eosin Y alcoholic solution	1x150 ml	05-B10003
	For cytoplasm staining	1x500 ml	05-M10003
		1x1	05-10003/L
		1x2,5	05-10003E
		4x2,5 I	05-10003Q
•	Eosin Y plus alcoholic solution	1x150 ml	05-B11007
	For cytoplasm staining	1x500 ml	05-M11007
		1x1	05-11007/L
•	Eosin-Phloxine alcoholic solution	1x150 ml	05-B10020
	For cytoplasm staining	1x500 ml	05-M10020
		1x1	05-10020/L
•	Erythrosine B Orange G Dominici	1x150 ml	05-B12003
	For cytoplasm and connective staining	1x500 ml	05-M12003
•	Phloxin B Gram	1x150 ml	05-B20004
	For Gram-negative bacteria		
•	Basic Fuchsin solution	1x150 ml	05-B07012
	Counterstain for Gram procedure	1x500 ml	05-M07012
		1x1	05-07012/L
٠	Basic Fuchsin Coleman	1x150 ml	05-B21001
	For evidencing fungi		
٠	Carbol Fuchsin - Ziehl Neelsen	1x150 ml	05-B20007
	For evidencing of acid resistant bacteria	1x500 ml	05-M20007
		1x1	05-20007/L
٠	Basic Fuchsin Gomori	1x150 ml	05-B11005
	For elastic fibers and secretion granules in alpha		
	and beta cells of pancreas		
٠	Paraldehyde Fuchsin Gridley	1x150 ml	05-B21002
	For evidencing fungi		
٠	Ponceau Masson fuchsin	1x150 ml	05-B10005
	For cytoplasm, keratin, muscle fibers	1x1	05-10005/L
٠	Metanil yellow solution	1x150 ml	05-B21003
	Counterstain in Mucicarmine method		





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HISTOLOGY\_ Staining General catalogue

PRODUCT AND DESCRIPTION	PACKAGING	CODE
Olamaa Daamaa kalaa	4	05 144 0005
Giemsa Pappenhaim	1x500 ml	05-M12005
Used with May Grünwald for the staining of	1x1	05-12005/L
different kind of cells in blood and bone marrow smears	1x2,5 l	05-12005E
Kovac's Reagent	1x150 ml	05-B09002
For identification of the indole	1×100 IIII	03-003002
Luxol Fast Blue Kluwer Barrera	1x150 ml	05-B18001
For myelin	1x500 ml	05-M18001
May Grunwald Pappenheim	1x500 ml	05-M12002
Used with Giemsa for the staining of different	1x1	05-12002/L
kind of cells in blood and bone marrow smears	1x2,5 I	05-12002E
	4x2,5 I	05-120020
Mucicarmine	1x150 ml	05-B26001
For acid mucopolysaccharides		
Nuclear Fast Red	1x150 ml	05-B07006
Nuclear red stain	1x500 ml	05-M07006
Acetic orcein solution	1x150 ml	05-B13002
For chromosome staining		
Acid orcein Shikata	1x150 ml	05-B11001
For elastic fiber staining		
Picrofuchsin Van Gieson	1x150 ml	05-B10012
Excellent to differentiate collagen from	1x500 ml	05-M10012
connective fibers	1x1	05-10012/L
Picro indigo carmine	1x150 ml	05-B10011
For connective tissue and eritrocytes		
Picro Mallory Aniline Blue	1x150 ml	05-B10016
For connective tissue and eritrocytes		
Picro Mallory - Orange G	1x150 ml	05-B10015
For eritrocytes		
Picro Mallory - Acid Fuchsin	1x150 ml	05-B10014
For cytoplasm		
Schiff reagent Feulgen	1x500 ml	05-M07007
DNA staining Schiff reagent Hotchkiss McManus	1x500 ml	05-M20001
For tissue components characterized by adjacent	1/200 111	03-10120001
glycolic or aminohydroxylic groups		
Sirius Red Puchtler	1x150 ml	05-B31007
For amyloid	TYTOO IIII	03-031001
Congo red Highman	1x150 ml	05-B31003
For amyloid	TYTOO IIII	00 001000
Congo red Puchtler	1x150 ml	05-B31004
For amyloid	TYTOO IIII	03-631004
Safranin solution	1x150 ml	05-B07008
Contrast for Gram staining	1x500 ml	05-M07008
	1x1	05-07008/L
Sudan III Herxheimer	1x150 ml	05-B27001
For lipids stain	2.1200 111	00 021001
Sudan black	1x150 ml	05-B27002
For lipids stain		22 22.002

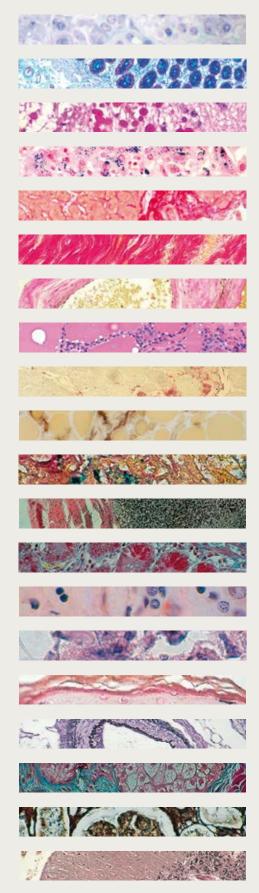


	PRODUCT AND DESCRIPTION	PACKAGING	CODE
•	<b>Turk solution</b> For leukocyte manual counting	1x150 ml 1x500 ml	05-B25001 05-M25001
٠	Light green Goldner	1x150 ml 1x500 ml	05-B10008 05-M10008
	For collagen, basophil granules of hypophysis and delta cells of hypophysis	1,500 IIII	03-10110008
•	Light green Grocott Used as background stain in the Grocott method	1x150 ml	05-B21004
•	Malachite Green solution	1x150 ml	05-B07011
	Counterstain in Ziehl Neelsen staining	1x500 ml	05-M07011
		1x1	05-07011/L
•	Methyl green pyronin	1x150 ml	05-B15003
	To evidence simultaneously DNA and RNA		
٠	Methyl green purified	1x150 ml	05-B08001
	Nuclear staining		
٠	Weigert slow stain Pearse	1x150 ml	05-B11004
	For detection of elastic fibers		
٠	Weigert rapid stain – Fuchsin resorcinol	1x150 ml	05-B11003
	solution	1x1	05-11003/L
	For detection of elastic fibers		

# Reagents

	PRODUCT AND DESCRIPTION	PACKAGING	CODE
•	Acetic acid 5%	1x500 ml	05-M27030
	Differentiating agent		
•	Hydrochloric acid Hotckiss McManus	1x500 ml	05-M05001
	Differentiating agent for P.A.S. staining		
•	Formic acid 20%	1x500 ml	05-M27031
	Lab reagent		
•	Phosphomolybdic acid Mallory	1x500 ml	05-M05004
	Differentiating agent for Mallory staining		
•	Phosphomolybdic acid Masson	1x500 ml	05-M05003
	Differentiating agent for Masson trichrome		
•	Phosphotungstic acid Heidenhain	1x500 ml	05-M05005
	Mordant for Azan trichromic staining		
•	Oxalic acid Mallory	1x500 ml	05-M05006
	Decolorizing solution		
•	Periodic acid 1%	1x500 ml	05-M05030
	Oxidant in PAS method	1x1	05-05030/L

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HISTOLOGY_ Staining
General catalogue

PRODUCT AND DESCRIPTION	PACKAGING	CODE
Picric acid aqueous 1.2% solution	1x500 ml	05-M05027
For fixative mixtures		
Picric acid alcoholic solution	1x500 ml	05-M05022
For eritrocytes in trichrome stainings		
Sulphuric acid 0,5 %	1x500 ml	05-M05007
For oxidation reaction with potassium	1x150 ml	05-B05007
permanganate		
Scott water	1x500 ml	05-M05023
Colour change solution for hematoxylins		
Albumin Mallory	1x150 ml	05-B04002
For the preparation of coated slides	1x500 ml	05-M04002
Aniline Alcohol Heidenhain	1x500 ml	05-M05010
Differentiating solution in Azan method		
Alcohol-Borax Mowry	1x150 ml	05-B05011
For acid mucopolysaccharides	1x500 ml	05-M05011
Gelatine	1x150 ml	05-B04001
Section adhesive for floating sections bath		
Gelatine adhesive for slides	1x150 ml	05-B04004
Histological sections adhesive		
Acid Ethanol Heidenhain	1x500 ml	05-M05009
For arresting differentiation in Azan method		
Acid Ethanol Weigert	1x500 ml	05-M05014
Differentiating solution in Weigert method		
Acid Ethanol Ziehl-Neelsen	1x500 ml	05-M05012
Decolorizing solution used in the Ziehl Neelsen	1x1	05-05012/L
method	1/1	00 00012/ 2
Lithium carbonate solution	1x500 ml	05-M05016
For hematoxylin colour change		
Lugol solution	1x500 ml	05-M05015
Chelating solution for mercury	1x1	05-05015/L
Gold chloride 1%	1x150 ml	05-B04020
For staining of silver ion		
Potassium metabisulfite 0.5% solution	1x500 ml	05-M05017
Differentiating solution for P.A.S. reaction		
Potassium permanganate 0.5% solution	1x500 ml	05-M05018
Oxidant agent		
Sodium thiosulfate 5% solution	1x500 ml	05-M05019
Decolorizing solution	1x1	05-05019/L
Gram's decolorizing solution	1x500 ml	05-M30010
Decolorizing solution	1x1	05-30010/L
Gram's decolorizing solution with isopropyl	1x1	05-30009/L
alcohol		
Decolorizing solution		
Koch's decolorizing solution	1x1	05-30008/L
Decolorizing solution		
Gram's iodine solution	1x150 ml	05-B20006
Mordant solution	1x1	05-20006/L
Acetate buffer Lennert	1x500 ml	05-M05020
Buffer used in May Gruenwald-Giemsa staining	1,000 IIII	03-1003020
Phosphate Buffer pH 7 10X	1x1	05-05029/L
Concentrate buffer pH 7	10x100 ml	05-05029/10
Decolorizing solution Ziehl Neelsen	1x500 ml	05-M05112
Decolorizing solution	1x1	05-05112/L

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# COVERGLASSING

#### Coverslips

High quality cleaned and degreased coverslips; cellophane wrapped and free from dust, dirt and cracks

PACKAGING	CODE
1.000 pcs	09-01818
1.000 pcs	09-01824
1.000 pcs	09-02020
1.000 pcs	09-02126
1.000 pcs	09-02222
1.000 pcs	09-02232
1.000 pcs	09-02240
1.000 pcs	09-02250
1.000 pcs	09-02424
1.000 pcs	09-02432
1.000 pcs	09-02440
1.000 pcs	09-02450
1.000 pcs	09-02460
1.000 pcs	09-05065
	1.000 pcs 1.000 pcs

# Coverslips suitable for automated coverslipper

Coverslips combining high quality standard with strict dimensional inspection, guaranteeing best performance on the automated coverslippers currently on the market.

SIZE/THICKNESS	PACKAGING	COVERSLIPPING MACHINE	CODE
24 x 40 mm / 0,13 ÷ 0,16 mm 24 x 50 mm / 0,13 ÷ 0,16 mm 24 x 60 mm / 0,13 ÷ 0,16 mm 24 x 40 mm / 0,13 ÷ 0,16 mm 24 x 50 mm / 0,13 ÷ 0,16 mm 24 x 60 mm / 0,13 ÷ 0,16 mm 24 x 40 mm / 0,16 ÷ 0,19 mm 24 x 50 mm / 0,16 ÷ 0,19 mm	1.000 pcs 1.000 pcs 1.000 pcs 1.000 pcs 1.000 pcs 1.000 pcs 1.000 pcs 1.000 pcs	Microm, Medite, Leica Microm, Medite, Leica Microm, Medite, Leica Thermo Thermo Thermo Thermo Thermo Thermo	09-02440CS 09-02450CS 09-02460CS 09-02440CSH 09-02450CSH 09-02460CSH 09-02460CSH 09-02440CSX 09-02450CSX
24 x 60 mm / 0,16 ÷ 0,19 mm	1.000 pcs	Thermo	09-02460CSX



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# **Mounting media**

# **Mount-Quick Tube**

Synthetic mounting medium, dissolved in xylene. Packaging: tube.

	ACKAGING	CODE
_1	X50 ml	08-1741







HISTOLOGY\_ Coverglassing General catalogue

# **Mount Quick Aqueous**

Synthetic mounting medium, dissolved in water. To be used when dehydration may cause the loss of stain characteristics.

Compatible with hematoxylin and eosin.

PACKAGING	CODE
9x30 ml	05-1740

# **Buffered glycerin**

Water soluble mounting medium for enzyme histochemical staining.

PACKAGING	
1x150 ml	05-B02003

# Immersion oil for microscope

A-type oil for microscope.

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



### **BioMount HM**

Synthetic mounting medium, dissolved in xylene, especially suitable for automated coverslippers.

PACKAGING	CODE
1x100 ml	05-BMHM100
10x100 ml	05-BMHM110
1x250 ml	05-BMHM250
8x250 ml	05-BMHM258
1x500 ml	05-BMHM500
8x500 ml	05-BMHM508

# SafeMount

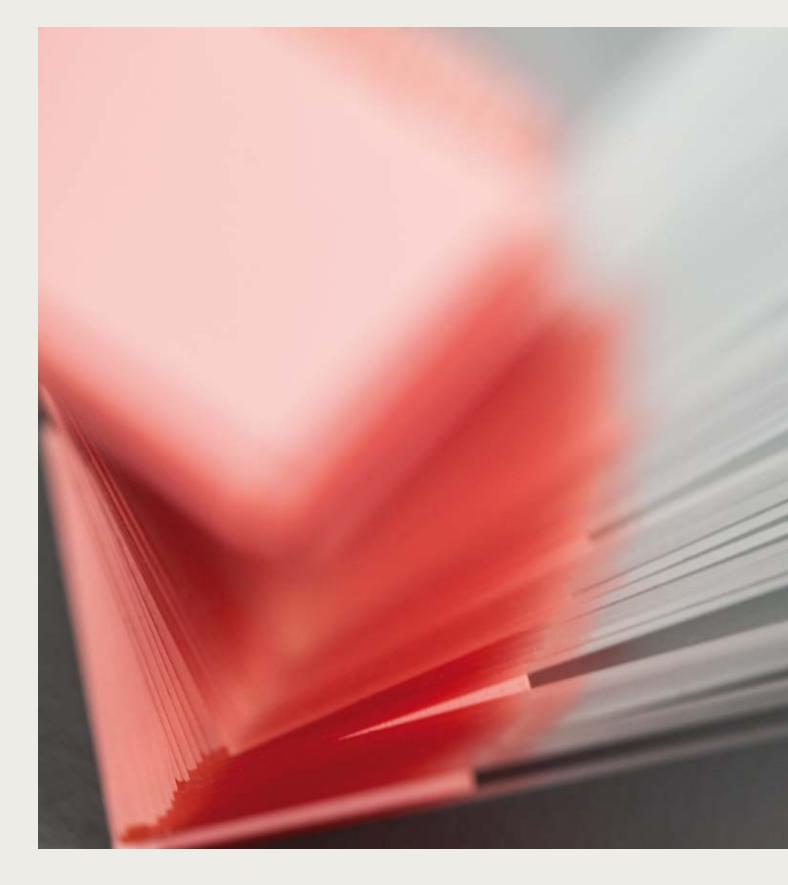
Synthetic mounting medium, dissolved in d-limonene, especially suitable for automated coverslippers.

PACKAGING	CODE
1x100 ml	05-SM100
10x100 ml	05-SM100
1x250 ml	05-SM250
8x250 ml	05-SM258
1x500 ml	05-SM500
8x500 ml	05-SM508





HISTOLOGY\_ Coverglassing General catalogue



# Cytology

_p. 82	Cytocentrifuges
_p. 83	Fixatives
_p. 84	Cytological collection
_p. 85	Staining solutions and kit



# **CYTO-CENTRIFUGE**

# **PRO-Cyt Cyto-centrifuge**

PRO-Cyt is a compact and basic cytocentrifuge, perfect for cell thin layers. It can centrifuge 4, 8 or 12 specimens at a time, depending on the model.

Ensures excellent results, thanks to the extremely accurate morphological details. PRO-Cyt cyto-centrifuge is perfect for the cytological specimens below:

- Pleural fluids
- Bronchial washing
- Fine needle aspiration
- Synovial fluids
- Sputa
- Peritoneal fluids
- Bone marrow
- Pericardial fluids
- Urine
- Cerebrospinal fluids

Featuring removable and autoclavable rotor Two versions available:

- With touch screen control panel and possibility to store 10 programmes.
- With LED display



CYTOLOGY\_Cytocentrifuge General catalogue



#### Features

Dimension: Weight:	330 x 460 x 270 mm (w x d x h) 16,5 Kg	
PRODUCT		CODE
4 samples - with LCD touch screen	1	4420-LCD
8 samples - with LCD touch screen 12 samples - with LCD touch scree	1	4430-LCD 4460-LCD
4 samples - with LED display 8 samples - with LED display		4420-LED 4430-LED
12 samples - with LED display Dual Cyto cuvette - high absorption		4460-LED 14-070
Dual Cyto cuvette - low absorption		14-080
Stainless steel clip		14-CLIP



# **FIXATIVES**

	PRODUCT AND DESCRIPTION	PACKAGING	CODE
•	Cy-Fix	54x25 ml	05-01C50P
	Fixative for monolayer cytology	1x1	05-01C50L
		54x25 ml (colourless)	05-01C50PN
•	Cy-Fix M	54x25 ml	05-01C51P
	Fixative for samples with abundant mucus	1x1	05-01C51L
•	Bio-fix	4x200 ml	05-X200
	Spray fixative for vaginal cytology	24x200 ml	05-X200/C0
•	Saccomanno fixative	1x1	05-01043/L
	Fixative for samples with abundant	54x18 ml	05-01043V30P
	mucus		
•	SaveCyt-U	40 ml - 24 vial in 8 Transport	05-CS7212
	Urine fixative - blue colour	bags	
		40 ml - 90 vial in 30 boxes	05-CS7213
		20 ml - 108 Falcon in 36 boxes	05-CS7214
		20 ml - 48 Falcon	05-CS7216
		20 ml - 48 Falcon x 6 plateau	05-CS7216-X6
		20 ml - 60 Falcon in Transport	05-CS7218
		bag	
•	SaveCyt-UN	20 ml - 108 Falcon in 36 boxes	05-CS7215
	Urine fixative - colourless	20 ml - 48 Falcon	05-CS7217
		20 ml - 48 Falcon x 6 plateau	05-CS7217-X6
		20 ml - 60 Falcon x Transport bag	05-CS7219



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**CYTOLOGY\_** Fixatives General catalogue

# **CYTOLOGICAL COLLECTION**









CYTOLOGY\_Cytological collection

**General catalogue** 

#### **Bio Brush**

Brush for cytological sampling, with soft nylon bristles tied with a stainless steel wire.

LENGHT	PACKAGING	CODE
19 cm	9 pack of 20 pcs	14-360
19 cm	500 pcs	14-365
19 cm	108 pack of 20 pcs	14-370
19 cm	500 pcs (sterile)	14-365S

# **Cervical spatulas**

Spatulas for cytological sampling, without sharp edges. Perfect for drawing samples even from tongue and throat - 17,5 cm long.

Benoit standard	200 pcs	14-340
Plastic Ayre	100 pcs	14-320
Wooden Ayre modified	200 pcs (sterile)	14-310
Wooden Ayre	200 pcs (sterile)	14-300S
Wooden Ayre	400 pcs	14-300
PRODUCT	PACKAGING	CODE

# **Dual cyto cuvette**

Double chambered cuvette for cyto-centrifuge.

PRODUCT	PACKAGING	CODE
Medium absorption	500pcs	14-080
High absorption	500 pcs	14-070
Medium absorption	3x216 pcs	14-081
High absorption	3x216 pcs	14-071

#### **Filters for cytology**

Polycarbonate (PCTE) membrane, free from impurities; perfect for filtering urine and cytological samples.

POROSITY	SIZE	PACKAGING	CODE
3 µm	Ø 13 mm	100 pcs	14-10565
3 µm	Ø 25 mm	100 pcs	14-11065
3 μm	Ø 47 mm	100 pcs	14-13065
3 µm	19 x 42 mm	100 pcs	14-10365
5 µm	Ø 13 mm	100 pcs	14-10568
5 µm	Ø 25 mm	100 pcs	14-11068
5 µm	Ø 47 mm	100 pcs	14-13068
5 µm	19 x 42 mm	100 pcs	14-10368
8 µm	Ø 13 mm	100 pcs	14-10573
8 µm	Ø 25 mm	100 pcs	14-11073
8 µm	Ø 47 mm	100 pcs	14-13073
8 µm	19 x 42 mm	100 pcs	14-10373



#### **Bio-Agar for embedded cytological specimens**

Aqueous gel for cytological specimens embedding: during processing cells are soaked and retained. Extremely useful for processing centrifuged cells and fragile or small sized biopsy specimens. Few Bio-Agar drops are enough to ensure that solvents will penetrate the specimen, without the latter coming out of the gel.

PRODUCT	CODE	-
15x10 ml	05-9803S	

# **STAINING SOLUTIONS AND KITS**

# **Staining solutions for Papanicolaou method**

Fast staining process, bright colours and excellent cell details. **Methanol free solutions.** 

PRODUCT	PACKAGING	CODE
Papanicolaou Harris Hematoxylin	1x500 ml 1x1 l 1x2,5 l 4x2,5 l	05-12011 05-12011/L 05-12011E 05-120110
Papanicolaou OG6	1x500 ml 1x1 l 1x2,5 l 4x2,5 l	05-12013 05-12013/L 05-12013E 05-12013Q
• Papanicolaou EA50	1x500 ml 1x1 l 1x2,5 l 4x2,5 l	05-12019 05-12019/L 05-12019E 05-12019Q
Papanicolaou EA65	1x500 ml 1x1 l 1x2,5 l 4x2,5 l	05-12017 05-12017/L 05-12017E 05-12017Q
Papanicolaou EA 31	1x500 ml	05-12015
Orange II Papanicolaou	1x500 ml	05-12014

# Fast Pap

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

PACKAGING	CODE
For about 500 slides	05-12055

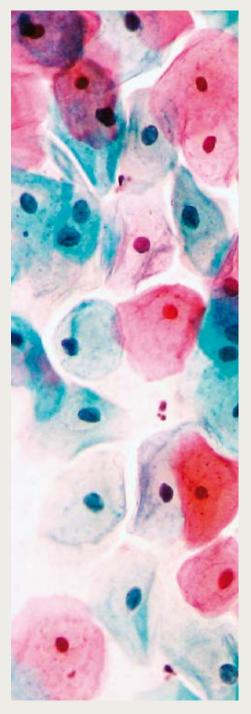
# **Isaach Wurch**

Also called "Rapid Papanicolaou" staining method. This method includes only two staining solutions (nuclear and cytoplasmic).

	PRODUCT	PACKAGING	CODE
•	IWA – nuclear stain Isaach Wurch	1x500 ml	05-M12020
		1x1	05-12020/L
•	IW3 – cytoplasmatic stain Isaach Wurch	1x500 ml	05-M12021
		1x1	05-12021/L







**CYTOLOGY\_** Staining solutions and kits **General catalogue** 

# May Grünwald Giemsa solutions

Ready-to-use solutions for May Grunwald Giemsa staining, for distinguishing cellular elements in blood smears, splenic tissue specimens, lymph node tissue, and marrow biopsies.

	PRODUCT	PACKAGING	CODE
•	May Grünwald	1x500 ml	05-M12002
		1x1	05-12002/L
		1x2,5 l	05-12002E
		4x2,5 l	05-12002Q
•	Giemsa	1x500 ml	05-M12005
		1x1	05-12005/L
		1x2,5 I	05-12005E

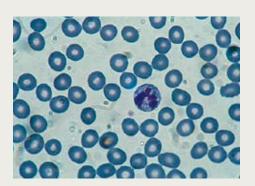
#### May Grünwald Giemsa staining kit for smears

PRODUCT AND APPLICATION		CODE
May Grünwald Giemsa staining kit	for smears	04-080802
For differential staining of cellular elements in blood smears, splenic		
tissue, lymph node tissue, and bone marrow specimens.		
Number of test	50 assays	
Procedure time	35 minutes	
Product validity	2 vears	

Number of test	50 assays
Procedure time	35 minutes
Product validity	2 years
Storage temperature	15-25°C

#### Result

Result	
Nuclei	red-violet, pink
Basophil cytoplasm	from pale blue to dark blue
Acidophil cytoplasm	from pale red to pink
Polychromatofilic cytoplasm	from grey to violet
Acidophil granules	orange
Neutrophil granules	brown-dark pink
Basophil granules	dark violet
Azurophil granules	from purple to purplish violet



CYTOLOGY\_Staining solutions and kits

**General catalogue** 

# **MGG Quick Stain**

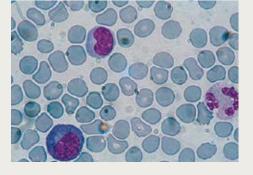
	PRODUCT AND APPLICATION		CODE
•	MGG Quick Stain		04-090805
Quick method for the differential staining of blood formed elements, to			
be used also for staining other air-dried cell smears.			
	Number of test	100	

Number of test	100
Procedure time	20 seconds
Product validity	2 years
Storage temperature	15-25°C

#### Result

Resulting stains and details match those obtained through standard May Grunwald Giemsa method.









**CYTOLOGY\_** Staining solutions and kits **General catalogue** 

Bio - Optica



# Autopsy - Dissecting

_p. 90	Aspirated hoods
_p. 93	Autopsy tables
_p. 94	Instruments
_p. 97	Autopsy saw
_p. 98	Accessories



# **ASPIRATED HOODS**

#### **Trimming Tech hood for histology**

Trimming Tech hoods are designed for meeting operator needs in terms of chemical and biological hazard prevention when processing formalin fixed anatomical specimens.

These workstations feature front, top and worktop extraction, guaranteeing the immediate extraction of formaldehyde vapour.

#### **Manufacturing characteristics**

- Stainless steel framework
- Accident-prevention vertically sliding power window installed on front, providing a fume barrier.
- Shelf tray
- Polyethylene trimming board 350 x 450 x 20 mm (w x d x h)
- Filter basket and cover for formalin tank

#### Worktop characteristics

- Seamless stainless steel worktop
- Anti-drip edge
- Basin with foot operated mixer tap and pull-up hand shower for bench washing.
- Tank for formalin disposal
- Waste liquid collection tanks with extraction system and independent washing system

#### **Extraction system**

- Pre-installed formalin filters with alumina grains
- Pre-installed synthetic fibres cartridge pre filters
- Manifold for the connection to the central system
- Control panel with soft-touch keyboard for operating parameter setting



AUTOPSY - DISSECTING\_ Aspirated hoods General catalogue



	PRODUCT	WORKTOP	DIMENSION	CODE
•	Trimming Tech 90	left sink right sink	900x750x2230 mm	50-090-001 50-090-002
•	Trimming Tech 130	left sink	1300x750x2230 mm	50-130-001
		right sink		50-130-002
٠	Trimming Tech 150	left sink	1500x750x2230 mm	50-150-001
		right sink		50-150-002
•	Trimming Tech 180	left sink	1800x750x2230 mm	50-180-001
		right sink		50-180-002
		central sink		50-180-003

# Accessories for aspirated hood for histology

P	RODUCT	CODE
G	arbage disposal unit for organic substances	50-500-055
Ν	/illimetre ruler	50-500-054
S	stainless steel filter for formalin basin	50-500-059
Ν	Agnetic knife holder	50-500-060
k	(leenex dispenser	50-500-061
ι	JV lamp and protection blind (*)	50-500-057
F	ormalin suction filter	50-500-058
A	rticulated lamp with cold light, 3-dioptre lens	50-500-069
F	IEPA (High Efficiency Particulate Air) filter	50-F005
F	ormalin filter with alumina grains	50-F003
S	Synthetic fibre pre filter	50-F007
S	stainless steel filter for water basin	50-500-062
S	spare lamp for UV 50-500-057 system	50-500-070
S	Swivelling stool	40-300-450
F	ootrest	40-300-451
h	mage acquisition system with touch-screen pc	50-200-001
h	mage acquisition system with desktop pc	50-200-101

(\*) To be installed only during the production stage.

Bio - Optica



#### Features

Dimension:	428 x 450 x 950 mm (w x d x h)
Weight:	12 kg
Distance objective - work plan:	800 mm approximately
Diagonal field acquisition:	from 450 to 70 mm approximately
Diaphragm:	fixed
Zoom control:	automatic
Pedal control:	included, with zoom-in, zoom-out, click
Camera resolution:	10Mpixel
Illuminator:	ring with integrated LED light sources with electronic
	control

#### PRODUCT

 System MAS10
 for hood mounted version, with touch screen pc
 50-200-000

 for hood mounted version, with desktop pc
 50-200-100

 for stand mounted version, with touch screen pc
 50-200-001

 for stand mounted version, with desktop pc
 50-200-001

 for stand mounted version, with desktop pc
 50-200-101



CODE

#### Image acquisition system MAS10

System designed for the acquisition and storage of histological specimen images and audio tracks during trimming operations. This system is based on a head that contains the optical system, the LED illuminator, the control and connection boards. This head is installed inside a trimming bench hood or on a stand.







AUTOPSY - DISSECTING\_ Aspirated hoods General catalogue



# **Receiving Tech**

Bench with extraction system, designed for the disposable containers during the processing of formalin fixed histological specimens.

### Manufacturing characteristics

- Stainless steel framework
- Smooth worktop for larger working area

#### **Extraction system**

- Fume extraction system from bench top and front.
- Preinstalled filter
- Control panel with soft-touch keyboard for operating parameter setting

PRODUCT	DIMENSION	CODE
Receiving Tech 130	1300x750x1200 mm	50-130-301
Receiving Tech 150	1500x750x1200 mm	50-150-301
Receiving Tech 180	1800x750x1200 mm	50-180-301

#### **Filters**

PRODUCT	CODE
Alumina filter for formaldehyde	50-F003
Synthetic fibre pre filter	



# **AUTOPSY TABLES**

Available in three models:

- Model TV410, height adjustable and featuring vapour extraction system from worktop
- Model TV410, fixed height, featuring vapour extraction system from worktop
- Model PL400, fixed height and without extraction system

# Manufacturing characteristics

- Stainless steel framework
- Collection tank inclined towards the draining hole, provided with liquid containing rim, covered with 5 removable perforated trays.
- Water basin with manual sanitary lever mixer tap
- Double washing system including a flexible shower for washing the whole worktop and an independent washing system inside the tank.
- Headrest
- Sliding overbed table, 35 cm high, inclined for simplifying draining, with Teflon top.

#### Extraction system (for model 410TA)

- Three-phase extraction fan, anti-spark
- Preinstalled activated carbon cartridge filter
- Manifold for the connection to the central system

PRODUCT	DIMENSION	CODE
Model TV410 Model TA410	2700x900x(900-1100) mm 2700x900x900 mm	50-270-701 50-270-702
Model PL400	2700x900x900 mm	50-270-703



AUTOPSY - DISSECTING\_ Autopsy tables **General catalogue** 

# **INSTRUMENTS**

Wide range of tools for autopsy and trimming of anatomical specimens.

I	PRODUCT AND DESCRIPTION	DIMENSION	PACKAGING	CODE
1	Autopsy needle			
		135 mm	12 pcs	32-600.1
		125 mm	12 pcs	32-600.2
		105 mm	12 pcs	32-600.3
_		73 mm	12 pcs	32-600.6
(	Cartilage knife			
	Langenbeck model, convex	55 mm (blade)	1 pcs	32-614.1
	Langenbeck model, pointed	55 mm (blade)	1 pcs	32-614.2
	With raspatory	65 mm (blade)	1 pcs	32-615
	Brain knife			
		254 mm	1 pcs	32-617.3
(	Organ knife			
		254 mm	1 pcs	32-618.2
-		152 mm	1 pcs	32-619
;	Surgical scissors straight			
	-	130 mm	1 pcs	32-623.1
		145 mm	1 pcs	32-623.2
		150 mm	1 pcs	32-623.3
		165 mm	1 pcs	32-623.4
-	Surgical scissors curved			
	0	130 mm	1 pcs	32-624.1
		145 mm	1 pcs	32-624.2
		150 mm	1 pcs	32-624.3
		165 mm	1 pcs	32-624.4
	Enteric scissors with bottom			
_		195 mm	1 pcs	32-625
	Dissection scissors			
	With bottom point	120 mm	1 pcs	32-627
	Pointed, with probe	145 mm	1 pcs	32-628
	Cutting scissors			
	0	130 mm	1 pcs	32-629.1
		145 mm	1 pcs	32-629.2
		165 mm	1 pcs	32-629.3
	Scissors for microscopy straight			
I	Delicate	110 mm	1 pcs	32-703
I	Iris and ligature scissors, straight	115 mm	1 pcs	32-704.1
ļ	Delicate, straight	95 mm	1 pcs	32-705.1
	Straight	108 mm	1 pcs	32-706.1
-				
_	Scissors for microscopy curved			
	Scissors for microscopy curved Iris and ligature scissors, curved	115 mm	1 pcs	32-704.2
:	Iris and ligature scissors, curved	115 mm 95 mm	1 pcs 1 pcs	32-704.2 32-705.2
;			1 pcs 1 pcs 1 pcs	
	Iris and ligature scissors, curved Delicate, straight	95 mm	1 pcs	32-705.2



AUTOPSY - DISSECTING\_ Instruments General catalogue

Bio - Optica

	PRODUCT AND DESCRIPTION	DIMENSION	PACKAGING	CODE
	Disconting foreone medium			
•	Dissecting forceps medium	130 mm	1 pcs	32-646.1
		145 mm	1 pcs	32-646.2
		160 mm	1 pcs	32-646.3
				· · · · · · · · · · · · · · · · · · ·
٠	Dissecting forceps standard			
		145 mm	1 pcs	32-647.1
		160 mm	1 pcs	32-647.2 32-647.3
		180 mm 200 mm	1 pcs	32-647.4
		250 mm	1 pcs 1 pcs	32-647.5
		200 1111	± 000	02 041.0
•	Surgical forceps medium			
		130 mm	1 pcs	32-646.1
		145 mm	1 pcs	32-646.2
		160 mm	1 pcs	32-646.3
	Surginal forease standard			
•	Surgical forceps standard	145 mm	1 pcs	32-649.1
		160 mm	1 pcs	32-649.2
		180 mm	1 pcs	32-649.3
		200 mm	1 pcs	32-649.4
		250 mm	1 pcs	32-649.5
•	Haemostatic forceps			
	Halsted-Mosquito straight	125 mm	1 pcs	32-707.1
	Halsted-Mosquito curved	125 mm	1 pcs	32-707.2
	Pean straight	140 mm	1 pcs	32-708
	Kocher with teeth straight	140 mm	1 pcs	32-709
•	Mallets			
	Light - plastic	250 mm - Ø 42	1 pcs	32-633.2
	Heavy - plastic	250 mm - Ø 50	1 pcs	32-633.3
	Ombredanne - stainless steel	240 mm - Ø 40	1 pcs - 550 g	32-634
	Bergmann - stainless steel	235 mm - Ø 30	1 pcs - 245 g	32-635
_	Object			
•	Chisel Tip 20 mm	245 mm	1 pcs	32-605
		2101111	1 000	02 000
•	Osteotomes			
	Tip 8 mm	140 mm	1 pcs	32-641.1
	Tip 10 mm	140 mm	1 pcs	32-641.2
	Stille osteotomes			
	Tip 8 mm	205 mm	1 pcs	32-642.1
	Tip 10 mm	205 mm	1 pcs	32-642.2
	Tip 12 mm	205 mm	1 pcs	32-642.3
	Tip 15 mm	205 mm	1 pcs	32-642.4
	Tip 20 mm	205 mm	1 pcs	32-642.5
	Tip 25 mm	205 mm	1 pcs	32-642.6
			- 000	
•	Gouges			
	8 mm wide	140 mm	1 pcs	32-658.1
	10 mm wide	140 mm	1 pcs	32-358.2
	12 mm wide	140 mm	1 pcs	32-358.3

Bio - Optica



AUTOPSY - DISSECTING\_ Instruments General catalogue



AUTOPSY - DISSECTING\_ Instruments General catalogue

	PRODUCT AND DESCRIPTION	DIMENSION	PACKAGING	CODE
•	Probe, double ended - $\emptyset$ 1,5 mm			00.000.0
		145 mm	1 pcs	32-662.1
		160 mm	1 pcs	32-662.2
		180 mm	1 pcs	32-662.3
		200 mm	1 pcs	32-662.4
		250 mm	1 pcs	32-662.5
	Myrtle leaf probe - Ø 2 mm			
		145 mm	1 pcs	32-660.1
		160 mm	1 pcs	32-660.2
		200 mm	1 pcs	32-660.3
	Probe			
		145 mm	1 pcs	32-661.1
		160 mm	1 pcs	32-661.2
	Blood Scoop		1	20.020
		50 ml (volume)	1 pcs	32-636
	Cranium chisel			
		140 mm	1 pcs	32-659
	Rib shears			
	Standard	230 mm	1 pcs	32-620
	Gluck model	190 mm	1 pcs	32-621
	Bone scissors	203 mm	1 pcs	32-631.1
		203 mm	1 pcs	32-631.2
	Bone holding forceps			00.044
	Fergusson model	205 mm	1 pcs	32-644
	Semb model	190 mm	1 pcs	32-645
	Instruments for measuring			
	Caliper, measuring range up to 150 mm	150 mm	1 pcs	32-603
	Stainless steel ruler graduated in mm/inches	150 mm	1 pcs	32-651.1
	Stainless steel ruler graduated in mm/inches	300 mm	1 pcs	32-651.2
	Stainless steel ruler graduated in mm/inches	500 mm	1 pcs	32-651.3
	Amputation saw			
	Saw with two blades	12 e 18 cm	1 pcs	32-657
	Spare blade	12 cm	1 pcs	32-657.1
	Spare blade	18 cm	1 pcs	32-657.2
	Amputation saw			
	Satterlee model	290 mm	1 pcs	32-653
	Spare blade for Satterlee model	290 mm	1 pcs	32-653.1
	Charriere model	290 mm	1 pcs	32-654.1
		21011111	1 pcs	02°00 <del>4</del> .1



# **AUTOPSY SAW**

# Oscillating electric saw with extraction system Swordfish 5000

Oscillating autopsy saw with waste extraction and collection system. Equipment starting kit includes:

- 1 x circular blade, 64 mm diameter
  1 x circular blade for plaster casts, 64 mm diameter
- 1 x circular blade, 76 mm diameter
- 1 x 51 mm segmental blade
- 1 x paper filter
- 1 x fabric filter
  1 x HEPA microfilter

	PRODUCT	CODE
	Autopsy Oscillating Medical Saw	32-MSYS5000
	PRODUCT AND DESCRIPTION	CODE
•	64 mm circular autopsy blade, 10 piece pack.	32-MBC64M
	It is the most used blade, for the majority of autopsy operations. The	
	coarse pitch blade reduces jam to a minimum Four fixing point for	
	improved safety. They can also be rotated to a new position, when any	
	saw part wears out.	
•	64 mm circular autopsy blade for plaster casts, 10 piece pack.	32-MBC64P
	Fine pitch blade for ensuring better accuracy and reducing any slipping	
	risk It can be rotated, for longer use.	
•	76 mm circular autopsy blade, 10 piece pack.	32-MBC76
	Wider blade for increased cutting depth. The coarse pitch blade	
	reduces jam to a minimum It can be rotated, so as to prolong its use.	
•	51 mm segmental blade, 10 piece pack.	32- MBS51
	Segmented blade for accurate specialist operations.	







# AUTOPSY - DISSECTING\_ Autopsy saw General catalogue

# Bench mounted electrical autopsy saw

Bench mounted electrical saw, for trimming bones and large specimens.

#### Saw body:

- Solid aluminium frame, grey
- Stainless steel bench worktop
- Dimension: 420 x 420 mm

## Blade:

- Length: 1,550 mm
- Adjustable blade tightener
- Built-in blade positioner (slice thickness control)
- Built-in pusher. Maximum cutting height: 260 mm

PRODUCT	DIMENSION	CODE
Bench autoptic saw	530 x 400 x 850 mm	19-590408
Stainless steel base (optional)		19-590408B
Spare blade		19-590408L



# ACCESSORIES

# **Trimming board**

Anatomical dissecting board Disposable boards with millimetre scale.

PRODUCT	MATERIAL	PACKAGING	CODE
30 x 50 cm	Polyethylene	1 pcs	07-7807
15 x 21 cm	Cardboard	20 pcs	08-8000 (disposable)
30 x 21 cm	Cardboard	20 pcs	08-8010 (disposable)
30 x 42 cm	Cardboard	20 pcs	08-8020 (disposable)
35 x 45 cm	Polyethylene	1 pcs	19-AC515/PS

# **Tissue Marking Dyes**

Dyes used for marking the margins of excised surgical specimens or processing different specimens in a single embedding cassette.

COLOUR	PACKAGING	CODE
Complete kit	7x60 ml	08-03000
Black	1x60 ml	08-0727-1
Blue	1x60 ml	08-0727-2
Green	1x60 ml	08-0727-3
Red	1x60 ml	08-0727-4
Yellow	1x60 ml	08-0727-5
Orange	1x60 ml	08-0727-6
Violet	1x60 ml	08-0727-7
Black	1x240 ml	08-0728-1
Blue	1x240 ml	08-0728-2
Green	1x240 ml	08-0728-3
Red	1x240 ml	08-0728-4
Yellow	1x240 ml	08-0728-5
Orange	1x240 ml	08-0728-6
Violet	1x240 ml	08-0728-7



AUTOPSY - DISSECTING\_ Accessories General catalogue







#### **Multi-purpose containers**

Shockproof containers for small histological specimens.

PRODUCT	MATERIAL	CAP	CODE
10 ml	1.800 pcs	Pressure cap	07-7760
20 ml	1.000 pcs	Pressure cap	07-7770
30 ml	750 pcs	Pressure cap	07-7780
50 ml	500 pcs	Pressure cap	07-7790
40 ml	500 pcs	Screw cap	07-M40
60 ml	500 pcs	Screw cap	07-M60

# **Multi-purpose screen printed containers**

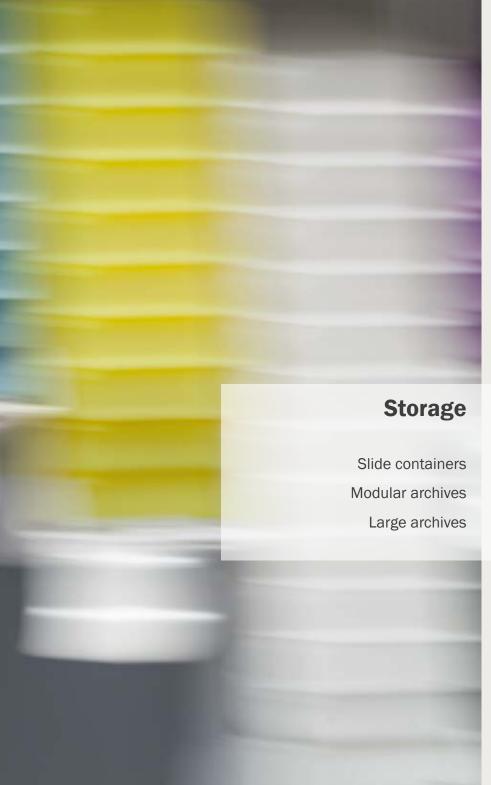
Multi-purpose polypropylene containers, with press-on cap ensuring perfect seal for storing histological specimens. Each container features screen-printed label of the chemical and biological risk symbols for ready-to-use neutral buffered formalin. Containers feature a small window for checking that the histological specimen is completely covered by the fixative solution.

PRODUCT	PACKAGING	CAP	CODE
125 ml	250 pcs	Pressure cap	07-7700
250 ml	200 pcs	Pressure cap	07-7750
500 ml	100 pcs	Pressure cap	07-7710
1.000 ml	100 pcs	Pressure cap	07-7720
3.000 ml	50 pcs	Pressure cap	07-7730
5.000 ml	20 pcs	Pressure cap	07-7740









_p. 102
_p. 104

\_p. 107



# **SLIDE CONTAINERS**

#### Slide trays, cardboard

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

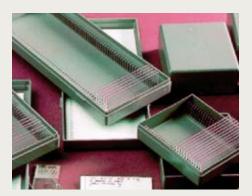
PRODUCT	PACKAGING	SIZE	CODE
PRODUCT 1 slide with cover 2 slides with cover 3 slides with cover 6 slides with cover 10 slides with cover 20 slides	PACKAGING 1 pcs 1 pcs 1 pcs 1 pcs 1 pcs 1 pcs 1 pcs	SIZE 102x45 mm 102x94 mm 102x105 mm 213x102 mm 342x102 mm 342x205 mm	CODE 09-0011 09-0002 09-0003 09-0006 09-0010 09-0000
20 slides with separators	1 pcs	342x205 mm	09-0020
20 slides with cover	1 pcs	342x205 mm	09-0001
20 slides with cover and	1 pcs	342x205 mm	09-0023
separators			

# Slide trays, plastic

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

PRODUCT	PACKAGING	SIZE	CODE
10 slides 20 slides	40 pcs 20 pcs	95x340 mm 190x340 mm	44-13080 44-13081
40 slides	10 pcs	395x340 mm	44-13081
20 slides with cover	1 pcs	190x290 mm	09-57620





STORAGE\_ Slide containers General catalogue

### Slide boxes, plastic

Stackable and shockproof. They feature specimen classification sheet.

PRODUCT	PACKAGING	SIZE	CODE
25 slides 50 slides	1 pcs 1 pcs	98x83x38 mm 230x97x35 mm	44-13071 44-13072
100 slides	1 pcs	230x180x35 mm	44-13073



#### Slide boxes, wooden

They feature specimen classification sheet.

PRODUCT	PACKAGING	SIZE	CODE
50 slides	1 pcs	274x98 mm	09-850724
100 slids	1 pcs	274x184 mm	09-850723



# Slide bags

Polystyrene bag, containing 4/8 slides.

PACKAGING	SIZE	CODE
100 pcs	150x110 mm	14-990



# Transport containers for microscope slides

Plastic and shockproof.

PRODUCT	PACKAGING	SIZE	CODE
With pressure cap for 5 slides	50 pcs	28x82x16 mm	09-000530
With screw cap for 5-10 slides	10 pcs	ø 40xh 90 mm	44-13061
Snap closure for 1 slide	500 pcs	50x100x6 mm	44-13031
Snap closure for 2 slides	500 pcs	73x85x6 mm	44-13041
Snap closure for 3 slides	100 pcs	100x84x6 mm	44-13051





**STORAGE\_** Slide containers **General catalogue** 

#### **MODULAR ARCHIVES**

#### **Istoglass - Istobloc**

Modular systems for storing slides and paraffin embedded specimens.

Istoglass modules (for slides) and Istobloc modules (for cassettes) are made of white enamelled plate.

They consist of sliding drawers fitted on guides. Each block of Istoglass/Istobloc modules may be completed by the base and the cover.

The special 7-drawer version for large sized slides or super mega cassette shows the same modular characteristics.

A spacing spring is recommended for ensuring that slides are kept vertical and the proper space is left between them.





**STORAGE\_** Modular archives

**General catalogue** 

#### Features

Dimension (w x d x h):	Istoglass - 490 x 490 x 140 mm	
	Istobloc - 490 x 490 x 90 mm	
Weight for each module:	13 kg empty, about 20 kg with	
	cassettes, about 40 kg with slides	
Capacity for each module:	Istoglass - 5.000 slides	
	Istobloc - 860 cassettes or	
	540 rings	
Overlay recommended modules:	10 Istoglass, 15 Istobloc	
Number of drawers for module:	14	

PRODUCT	CODE
Istoglass for slides	03-5000-14
Istobloc for cassettes	03-B900
Istoglass 7 drawers for macro-sections	03-7000
Base	03-5000-BA
Cover	03-5000-CO
Spacing spring	03-5000-MD



#### Colorteca

Modular system for storing slides and paraffin embedded specimens.

Plastic drawers have been especially designed for containing both slides and embedded specimens.

Drawers are available in 8 different colours, which can be easily related to the colours of the slides or blocks to be stored there.

Each module includes 13 drawers, and each drawer can contain approx. 330 slides or 48 blocks or 24 embedding rings.

Module external dimensions are the same as stoglass modules (item No. 05-5000-14) and stobloc (item No. 03-B900). This means the coloured cabinet can be stacked on any existing cabinet.

PRODUCT

CODE

Base		03-5000-BA
Cover		03-5000-CO
Metal structure		03-COLOR13
Plastic drawer	white with internal separators	03-CA7100S
	orange with internal separators	03-CA7110S
	blue with internal separators	03-CA7120S
	yellow with internal separators	03-CA7130S
	lilac with internal separators	03-CA7140S
	pink with internal separators	03-CA7150S
	green with internal separators	03-CA7160S
	grey with internal separators	03-CA7180S
	white	03-CA7100
	orange	03-CA7110
	blue	03-CA7120
	yellow	03-CA7130
	lilac	03-CA7140
	pink	03-CA7150
	green	03-CA7160
	grey	03-CA7180
Colorteca with 13 drawers	blue	03-COLOR13/B
	grey	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







Bio - Optica

**STORAGE** Modular archives **General catalogue** 



#### **Bio-block**

Modular plastic storage cabinet with 8 drawers for paraffin embedded specimens (cassettes or embedding rings). Each drawer has seven different compartments. Bio-block total capacity is 2.250 cassettes approximately. Bio-block simple joints guarantee exceptional modularity since they allow for both vertical and horizontal module staking.

DIMENSION	PACKAGING	CODE
240x300x400 mm	1 pcs	03-3000

#### **Cartoglass - Cartoblock**

Modular cardboard system, light and resistant, easy to transport, even when full. The Cartoglass (for slides) and Cartoblock (for cassettes) modules are equipped with internal cardboard dividers, creating up to 36 partitions in Cartoglass module and 16 partitions in Cartoblock module.

PRODUCT	CAPACITY FOR MODULE	DIMESION	PACKAGING	CODE
Cartoglass Cartoblock	3.000 slides 320 cassettes 220 rings	290x400x80 mm 290x400x45 mm	10 pcs 10 pcs	03-4015-BA 03-4010-BC
Cover	_	290x400x15 mm	10 pcs	03-4020-ВО



STORAGE\_ Modular archives General catalogue



PRODUCT	CAPACITY (N° DISHES)	DRAWERS	DIMENSION	WEIGHT	CODE
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	80.640 V	14	1450 mm	338	03-V92B23B
	17.920 B	(V 6 e B 8)			
	80.640 V	16	1550 mm	400	03-V80B22B
	22.400 B	(V 6 e B 10)			



# LARGE ARCHIVES

Storage systems consisting of a steel plate coated with epoxy powder applied electrostatically, without solvents, thus respecting the environment, and then processed into thermal tunnel at 200°C, extremely resistant to standard chemical attacks.

Each drawer is fitted onto slides, and allows access to the whole drawer area. The drawer includes plastic containers (item No. 03-C28N) for better storage of both slides and embedded blocks.

They feature central locking, available in three different versions:

- Lock with security cylinder, including anti-overturn system (only one drawer can be opened at a time)
- "Code lock": key is replaced by a number code
- "Remote Lock": electronic system with manual radio-controls

The front handle of each drawer features a cardboard label for content identification Colours available:

- Blue (standard, Ral 5012)
- Flame red (upon request, Ral 3000)
- Green (upon request, Ral 6011)
- Pebble grey (upon request, Ral 7032)





**STORAGE** Large archives **General catalogue** 

# Mobile storage cabinet

Storage cabinet for slides or blocks, featuring wheels and handles for transport.

Cabinet top features a blue ribbed mat with special edge for fall prevention, preventing slide trays from slipping and falling during shifts.

Three locks are available for these storage cabinets, too:

- Key Lock
- Code Lock
- Remote Lock





PRODUCT	CAPACITY	DRAWERS	DISHES	DIMENSION MM	WEIGHT KG	CODE
					(EMPTY)	
For cassettes	11.520	12	144	564x725x1.000	188	03-B13440B
For slides	51.840	9	108	564x725x1.000	159	03-V60480B
For slides and	34.560 slides	10 (6 for slides and	120	564x725x1.000	168	03-V40B4B
cassettes	3.840 cassettes	4 for cassettes)				

# Accessories for large storage cabinets

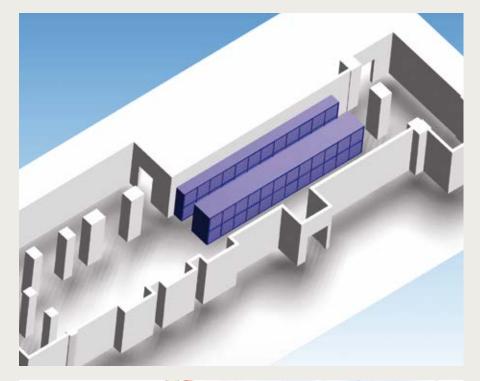
PRODUCT	CODE
Container for slides and embedded blocks	03-C28N
Container for slides and macrosection cassettes	03-C28S
Steel cabinet base, preset for pallet trucks	03-90320120
Steel cabinet base, preset for pallet trucks	03-5000-MDL
Key lock	03-820.002
Code lock	03-820.011
Remote lock for standard storage cabinets	03-ER820013
"Remote lock mobile", for mobile storage cabinets	03-ER820019

STORAGE\_ Large archives General catalogue

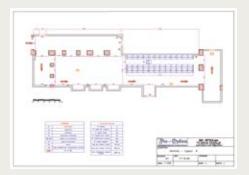


Bio-Optica is also specialized in the design and supply of costumized large archives, offering customers:

- Experience
- Professionalism
- Cutting-edge design techniques



Design





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Result



# Security

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_p. 112	Aspirated cabinets	
_p. 113	Hood and bench	
_p. 115	Protectives for lab	

# **ASPIRATED CABINETS**

# FC series ventilated safety cabinets

Ventilated cabinets designed for the storage of formalin fixed histological specimens or for solvents and chemical substances.

# **Manufacturing characteristics**

- Electrogalvanized steel plate frame
- Three trays, adjustable height
- Overlapping doors made of accident prevention glass

### **Extraction system**

- Anti-spark fan extractor
- Formaldehyde filter with alumina grains
- Manifold for the connection to the central extraction systems
- Control panel with soft-touch keyboard for operating parameter setting



PRODUCT	OVERALL DIMENSION	INTERNAL DIMENSION	CODE
Cabinet 700	700 x 550 x 1900 mm	680x490x1580 mm	50-070-601
Cabinet 1000	1000 x 550 x 1900 mm	980x490x1580 mm	50-100-601
Cabinet 1200	1200 x 550 x 1900 mm	1180x490x1580 mm	50-120-601
ACCESSORIES			CODE
Filter for formalin			50-F001
Filter for solvents			50-F002
HEPA filter			50-F006
Palletized base to fa	acilitate the moving of cab	inet	50-600-053



**SECURITY\_** Aspirated cabinets

**General catalogue** 



# **HOOD AND BENCH**

# **Desk Tech - Laboratory bench**

Stainless steel laboratory bench with smooth worktop, liquid containing rim or basin, depending on the model.

# **Manufacturing characteristics**

- Completely stainless steel framework
- Base feet in antistatic and anti-slip material

	PRODUCT	WORKING SURFACE	DIMENSION	CODE
•	Desk Tech 90	smooth	900x750x900 mm	50-090-401
		with liquid containing rim		50-090-402
		with wash basin		50-090-403
•	Desk Tech 130	smooth	1300x750x900 mm	50-130-401
		with liquid containing rim		50-130-402
		with wash basin on the left		50-130-403
		with wash basin on the right		50-130-404
٠	Desk Tech 150	smooth	1500x750x900 mm	50-150-401
		with liquid containing rim		50-150-402
		with wash basin on the left		50-150-403
		with wash basin on the right		50-150-404
•	Desk Tech 180	smooth	1800x750x900 mm	50-180-401
		with liquid containing rim		50-180-402
		with wash basin on the left		50-180-403
		with wash basin on the right		50-180-404



SECURITY\_ Hood and bench General catalogue



# Lab Tech chemical hoods

Hood designed for slide mounting and staining operations. Designed for chemical and biological risk prevention.

Featuring front and top vapour extraction system.

### **Manufacturing characteristics**

- Stainless steel framework
- Accident-prevention vertically sliding manual window installed on front providing a fume barrier inside the hood.
- Shelf tray

## Filtering/Extraction system

- Pre-installed synthetic fibre pre filters and filters
- Preset for HEPA filter.
- Control panel with soft-touch keyboard for operating parameter setting

### Features

Working usable height:	850 mm	
Control panel:	touch screen monitor for the control and the	
	visualization of all the functions	

### Working surface

	PRODUCT	WORKING SURFACE	DIMENSION	CODE
•	Lab Tech 90	with liquid containing rim without liquid containing rim with wash basin on the left with wash basin on the right	900x750x2230 mm	50-090-101 50-090-102 50-090-103 50-090-104
•	Lab Tech 130	with liquid containing rim without liquid containing rim with wash basin on the left with wash basin on the right	1300x750x2230 mm	50-130-101 50-130-102 50-130-103 50-130-104
•	Lab Tech 150	with liquid containing rim without liquid containing rim with wash basin on the left with wash basin on the right with double wash basin	1500x750x2230 mm	50-150-101 50-150-102 50-150-103 50-150-104 50-150-105
•	Lab Tech 180	with liquid containing rim without liquid containing rim with wash basin on the left with wash basin on the right with double wash basin	1800x750x2230 mm	50-180-101 50-180-102 50-180-103 50-180-104 50-180-105

### Standard components included in the equipment

PRODUCT	CODE
Filter for solvents	50-F004
Prefilter	50-F007

# **Optional accessories**

PRODUCT	CODE
HEPA filter Spare lamp for UV system 50-500-057 U.V. lamp with self-switching off programming and rolling protection curtain	50-F005 50-500-070 50-500-057



# **PROTECTIVES FOR LAB**

## **Disposable aprons**

Polyethylene apron, perfect for laboratory and dissection room.

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

# Vantage cut resistant gloves

Professional gloves Guaranteeing excellent cut resistance with lightweight and comfort, protection class III.

SIZE	PACKAGING	CODE
Small	1 pair	08-70-750/S
Medium	1 pair	08-70-750/M
Large	1 pair	08-70-750/L
Extralarge	1 pair	08-70-750/XL

# Wire mesh gloves

To be used during autopsies and anatomical specimen trimming.

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

# **Transport** bags

Polypropylene bags for specimen transport, equipped with minigrip closure and document folder.

SIZE	PACKAGING	CODE
16 x 25 cm	500 pcs	44-9590









# **Bio-Pads**

Special fabric pads for formaldehyde absorption.

Perfect for containing any formaldehyde spillage, leakage and dripping during anatomical specimen trimming, reducing the occupational risk related to the exposure to formalin.

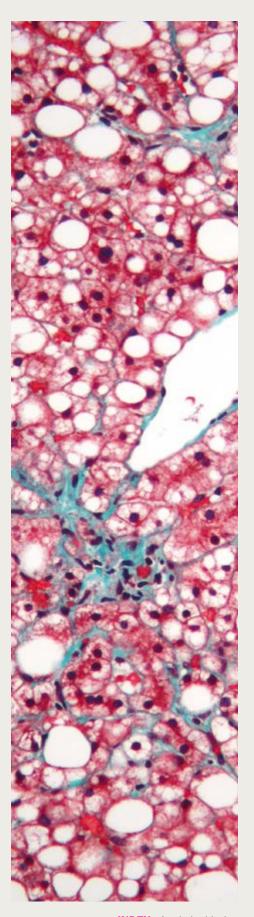
SIZE	PACKAGING	CODE
203 x 254 mm	25 pcs	08-FNP0810
406 x 508 mm	25 pcs	08-FNP1620





# **ANALYTICAL INDEX**

A



INDEX\_ Analytical index General catalogue

Accessories trimming nood	90
Acetate buffer	76
Acetic acid 5%	75
Acetic carmine	73
Acid ethanol	76
Acid phosphatase	68
Acridine orange	73
Adapter for large slides for macro-sections	39
Afog	46
AgNOR	46
Albumine Mallory	76
Alcian Blue pH 0,5	47,72
Alcian Blue pH 1	47,72
Alcian Blue pH 2,5	47,72
Alcian Blue pH 2,5 - pH 1	47
Alcian Blue pH 2,5 PAS	48
Alcian Blue pH 3,1	72
Alcian yellow - Toluidine blue	48
Alcohol borax Mowry	76
AlcoolPath	15
Alkaline phosphatase	68
Amylase	48
Amputation saw	96
Aniline alcohol Heidenhain	76
Aniline blue/Orange G Heidenhain	72
Aniline blue/Orange G Mallory	72
Aniline blue Masson	72
Aprons - disposable	115
Archives - big	107
Archives cardboard	106
Archives with wheels	108
ATPase	67
Auramine phenol	72
Auramine rhodamine	72
Autopsy needles	94
Azan trichrome	49
Azocarmine G Heidenhain	72

# В

1		
	B 5	11
	Backer fixative	70
	Bench Guard	40
	Bench hood Bench Tech	36
	Bielschowsky	49
	Bio-Agar	83
	Bio-block	106
	Bio Brush	84
	Bio cassettes	19
	Bio Clear	14
	Biodec R	11
	Bio-fix	83
	Bio Molds	25
	BioMount HM	79
	Bio-Pads	115
	BioParaFree	30
	Bio-Plast	16
	Biopsy bags	16
	Biopsy cassettes	19
	Biopsy pads	16



Blood Scoop	96
Blue Astra	72
Blue cresyl brillant	72
Blue lactophenol	72
Bone holding forceps	96
Bone scissors	96
Bouin	11
Bouin Hollande sublimate	11
Brown-Brenn	49
Brushes	30

# С

J		
	Caliper	96
	Carnoy	11
	Carson	11
	Cartoblock	106
	Cartoglass	106
	Cell-Block	10
	Cervical spatulas	84
	Chemical Cabinet aspirated	112
	Chemical hood	114
	Chisel	95
	Coated paper	40
	Colloidal iron	50
	Colorteca	105
	Congo red	60, 74
	Containers - multipurpose	99
	Containers - prefilled	9
	Cooling Plate	27
	Coverglasses	77
	Cranium chisel	96
	Cresyl Violet Kluwer Barrera	73
	Cresyl violet Moore	73
	Cresyl Violet Vogt	73
	Crio Clor 0,3	31
	Crystal violet Gram	73
	Crystal violet metachromatic	73
	Cryo spray	31
	Cutting boards for reduction	98
	Cuvettes for Shandon cytocentrifuge	84
	Cytocentrifuge	82
	Cytochrome C oxidase	67
	Cy-Fix	83

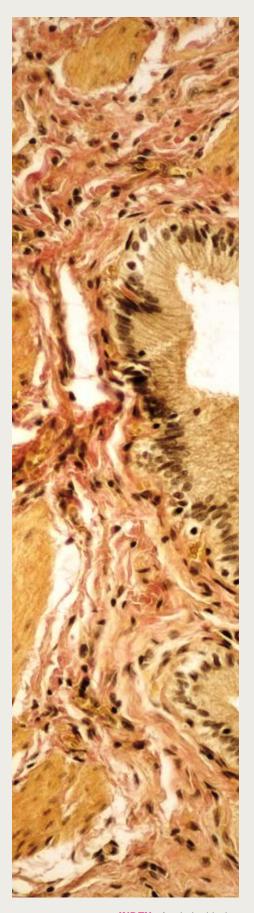
# D

_		
	Dane	50
	Decalcifying solutions	11
	Dehyol	14
	Diastase	50
	Dispomold	25
	Dual cyto cuvette	84
	Dubosq Brezil	11

Bio - Optica



INDEX\_ Analytical index General catalogue



INDEX\_ Analytical index General catalogue

# Е

85
85
85
11
19, 20, 21
25
20
22, 23, 24
17
73
73
73
73
73
68

# F

11
85
51
84
40
70
30
40, 95
8
8, 9
75
51
27
73
73
51, 73
73
73

# G

Gelatine adhesive	76
Giemsa Pappenhaim	74, 86
Giemsa for Hp	52
Glass markers	45
Gloves - Cut resistant	115
Gloves - Wire mesh	115
Glycerin neutral buffered	78
Gold chloride 1%	76
Gomori, trichrome staining solution	70
Gooding-Stewart	11
Gordon-Sweet	52
Gouges	95
Gram	52
Gram's decolorizing solution	76
Grimelius	53
Grocott	53

# Н

Haemostatic forceps	95
Heated forceps	25



Hematoxylin Carazzi	71
Hematoxylin Delafield	71
Hematoxylin Mayer	71
Hematoxylin Gill	71
Hematoxylin Harris Papanicolaou	85
Hematoxylin Harris for histology	71
Hematoxylin Heidenhain	71
Hematoxylin Phosphotungstic acid	60,71
Hematoxylin Regaud	71
Hematoxylin Weigert iron	71
Histology hood Trimming Tech	88
Histology Pen	45
Histoenzymatic kit	70
Hollande	11
Hot plates	28
Hyaluronidase	53
Hydrochloric acid Hotchkiss McManus	75

### 

Imaging System	91
Immunofix	11
lodine solution	76
Isaach Wurch	85
Istobloc	104
Istoglass	104

# Κ

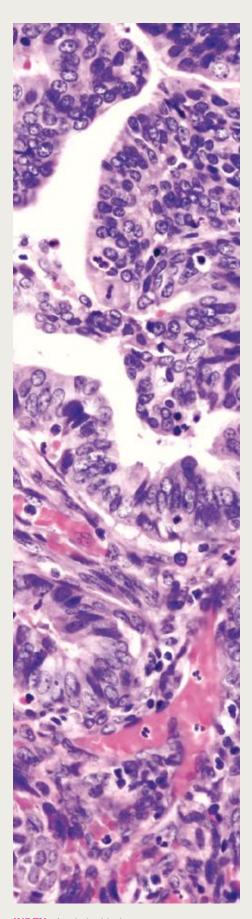
Killik	31
Knives	94
Koch's decolorizing solution	76
Kovacs reactive	74

### L

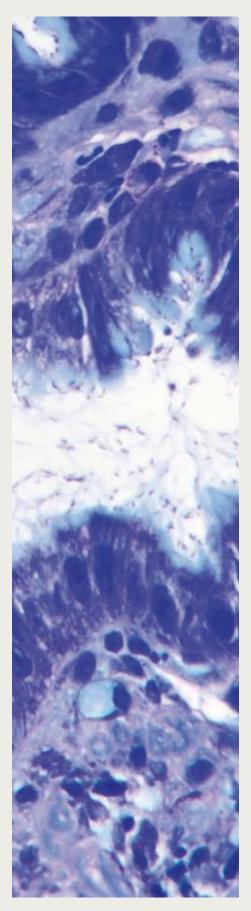
Laboratory bench	113
Light green	75
Liquid Blocker	40
Lithium carbonate solution	76
Lugol solution	76
Luxol fast blue	54, 74

M		
	Malachite green	75
	Mallory trichrome	54
	Mallets	95
	Masson Fontana	55
	Masson trichrome	55
	Mayer Carmalum	73
	May Grunwald Giemsa	56, 86
	May Grunwald Pappenhaim	74, 86
	Mega cassettes	19





INDEX\_ Analytical index General catalogue



INDEX\_ Analytical index General catalogue

Mega molds	25
Metanil yellow	73
Methylene blue Löeffer	72
Methylene blue new	72
Methylene blue Ziehl Neelsen	72
Methyl green buffered solution	70
Methyl green pyronin	62, 75
Methyl green Unna	75
MGG Quick Stain	86
Microscope immersion oil	78
Microscope slides Menzel	42, 43, 44
Microscope slides Menzel coated	44
Microtome Bench	26
Microtome oil	35
Mielodec	11
Modular archives	104, 105
Mount Quick Aqueous	78
Mount-Quick Tube	78
Mucicarmine	56, 74
Mucosectomia kit	17
Myoadenylate deaminase	69

# Ν

NADH diaphorase	69
Nitro Blue Tetrazolium	56
Nuclear Fast Red	74

# 0

Oscillating Saw	97
OG6 Papanicolaou	85
Oil red O	57
Oil red O solution	70
Orange II Papanicolaou	85
Orange G Pearse	72
Orcein	57, 74
Osteodec	11
Osteotome	95
Oven	29
Oxalic acid Mallory	75

# Ρ

Papanicolaou - solutions	85
Pap pen for immunohistochemistry	40
Paraffin distributor	25
Paraffins	16
P.A.S.	57
P.A.S. A	58
P.A.S. Pearse	58
P.A.S. Picro indigocarmine	58
Pens for cassettes	45
Periodic acid 1%	75
Perls	59
Perls – Van Gieson	59
Phloxin B Gram	73
Phosphate buffer pH 7,0 10x	76
Phosphofructokinase	68
Phosphorylase	69



Phosphomolybdic acid	75
Phosphotungstic acid Heidenhain	75
Picric acid	76
Picro fuchsin Van Gieson	74
Picro indigo carmine	74
Picromallory - Orange G	74
Picromallory - Aniline blue	74
Picromallory acid fuchsin	74
Picro Mallory	59
Post mortem table	93
Potassium metabisulfite 0,5%	76
Potassium permanganate 0,5%	76
Printer for cassettes	18
Printer for slides	41
Probes	96
Processor FTP300	13
Processor VTP300	12
P.T.A.H.	60, 71

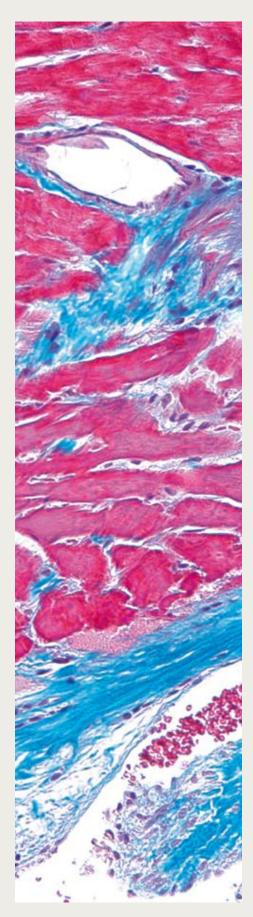
# R

Rapid frozen sections kit	60
Receiving Bench	92
Rib shears	96
Ruler	96

# S

Saccomanno – fixative	83
Safranin solution	75
SaveCyt-U	83
Saw Bench	97
Schiff reagent	75
Scissors	94
Scott's water	76
Securline Marker II	45
Silver Impregnation	54
Silver Methenamine	61
Sirius red	61,75
Sirius red picrate	61
Slide box	102, 103
Slide Master	39
Slide trays	102
Slides for diagnostics	44
Sodium Rhodizonate	62
Sodium thiosulphate 5%	76
Stainer AUS107 - linear	35
Stainer AUS124 - carousel	34
Stainer AUS140 - X-Y	32
Stainer - manual	37
Staining dishes	38
Stille osteotomes	95





INDEX\_ Analytical index General catalogue



INDEX\_ Analytical index General catalogue

Succinic dehydrogenase	69
Sudan III	75
Sudan black	75
Sulphuric acid 0,5 %	76
Super mega cassettes	19
Super mega molds	25

### Т

Timers	39
Tissue Capture	45
Tissue Marking Dyes	98
Toluidine blue polychrome	72
Transport bags	117
Tube Checker	45
Turk solution	75

# U

Unyhol	15
Unyhol Plus	15
V	

# Van Gieson Trichrome62Ventilated oven29Verhoeff63Von Kossa63

# W

Warthin-Starry	63
Water bath	28
Water bath round	28
Weigert	64
Weigert rapid stain - Fuchsin resorcin	75
Weigert stain Pearse	75
Weigert Van Gieson	64, 65
Wilson's Disease Stain	65

# X

Ζ

-	
Xilene	14
,	

Zenker fixative	11
Ziehl carbol fuchsin	73
Ziehl-Neelsen	65
Ziehl-Neelsen decolorizing	76
Ziehl-Neelsen Fite	66

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