



# Life Science TOP Offers



**-25 %**



## ROTI®Plate90

**NEW**



ready-to-use

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**Sterile ready-to-use culture media plates for microbiological analysis.**

- Diameter 90 mm
- Surface 63,6 cm<sup>2</sup>
- Very easy to use
- Well applicable for microbiological analysis of samples
- Prepared with our proven dehydrated nutrient media mixtures

Product name	General application	Art. No.	Pack Qty.	€	€
ROTI®Plate90 CASO	For the cultivation of non-demanding microorganisms.	1ATX.1	10 unit(s)	14,55	10,60
ROTI®Plate90 PCA	For total bacterial count of aerobic microorganisms.	1AX1.1	10 unit(s)	14,55	10,60
ROTI®Plate90 Sab4Cla	For selective isolation of yeasts and pathogenic fungi.	1AX0.1	10 unit(s)	14,55	10,60
ROTI®Plate90 TSA	For detection and counting of <i>E. coli</i> and other coliform bacteria in food and water samples.	1ATT.1	10 unit(s)	14,55	10,60
ROTI®Plate90 VRBD	For the cultivation of enterobacteria.	1AX2.1	10 unit(s)	14,55	10,60
ROTI®Plate90 YGC	For counting yeasts and moulds in milk and dairy products.	1ATY.1	10 unit(s)	14,55	10,60

Valid from 1 October to 31 December 2020

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# Microbiological Nutrient Media



**-25 %**



Product name	Purity	Art. No.	Pack Qty.	€	€
Brain-Heart-Infusion Broth	for microbiology	X916.1	500 g	96,65	72,45
		X916.2	1 kg	165,05	123,50
CASO Agar	Ph.Eur., ISO 9308, ISO 11133, ISO 11930, ISO 18415, ISO 18416, ISO 21149, ISO 21150, ISO 22717, ISO 22718, for microbiology	X937.1	500 g	87,65	65,45
		X937.2	1 kg	156,45	117,05
		X937.3	2.5 kg	334,90	251,10
		X937.7	5 kg	636,30	477,15
CASO Broth	Ph.Eur., USP, ISO 10273, ISO 11133, ISO 21871, for microbiology	X938.1	500 g	73,00	51,05
		X938.2	1 kg	122,45	85,65
		X938.3	2.5 kg	260,05	182,00
		X938.7	5 kg	490,75	343,50
Coliforms chromogenic Agar	for microbiology	CL45.2	100 g	132,80	99,55
		CL45.1	525 g	489,70	367,20
Fraser Half Broth (Base)	ISO 11133, ISO 11290-1, for microbiology	HP18.1	500 g	104,85	78,35
		HP18.2	1 kg	186,95	140,15
Lactose Peptone Broth (DEV)	for microbiology	CL77.1	500 g	117,75	88,00
		CL77.2	1 kg	200,50	150,30
MRS Agar	for microbiology	X924.1	500 g	82,70	61,95
		X924.2	1 kg	143,55	107,35
		X924.3	2.5 kg	311,65	233,70
		X924.4	5 kg	600,95	450,65
Peptone Water, buffered	EN ISO 6579, EN ISO 6887, ISO 11133, ISO 11290, ISO 19250, ISO 21528, for microbiology	X917.1	500 g	58,60	43,90
		X917.2	1 kg	105,90	79,35
		X917.3	2.5 kg	215,55	161,60
Plate Count Agar	APHA, ISO 4833:2003, for microbiology	X930.1	500 g	91,30	68,40
		X930.2	1 kg	170,85	127,80
		X930.3	2.5 kg	345,65	258,95
Potato Extract Glucose Agar	Ph.Eur., for microbiology	X931.1	500 g	103,10	71,90
		X931.2	1 kg	184,40	128,85
		X931.3	2.5 kg	423,45	296,35
Sabouraud 4 % Glucose Agar	Ph.Eur., ISO 11133, ISO 16212, for microbiology	X932.1	500 g	70,85	53,10
		X932.2	1 kg	127,85	95,55
TBX chromogenic Agar	ISO 11133, ISO 16649-2 and -3, for microbiology	CL47.2	100 g	100,55	75,10
		CL47.1	500 g	363,25	272,40
TSC Agar (Base)	DEV, EN ISO 7937:2004, ISO 11133, ISO 14189, for microbiology	CL51.1	500 g	122,45	91,80
Violet Red Bile Agar with Glucose	Ph.Eur., ISO 11133, ISO 21528, for microbiology	X939.1	500 g	81,60	61,15
		X939.2	1 kg	142,90	107,10
		X939.3	2.5 kg	285,85	214,35
Violet Red Bile Agar with Lactose	ISO 4832, ISO 11133, for microbiology	X940.1	500 g	79,05	59,00
Wort Broth	for microbiology	5779.1	500 g	192,45	144,30
Yeast Extract Agar	DEV, EN ISO 6222, ISO 11133, for microbiology	CP63.1	500 g	95,15	71,30
Yeast Glucose Agar (with chloroamphenicol)	for microbiology	CL00.1	500 g	95,60	71,65
		CL00.2	1 kg	162,90	122,10

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)



# Popular ready-to-use solutions **-22%**

ready-to-use

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## ROTI®Sep 1077 human

**CELLPURE® sterile, for density gradient centrifugation**

Polysucrose based medium for separation of lymphocytes/PBMC from human whole blood.

Density 1.077 g/ml.

Best alternative to Ficoll®.

Storage temperature: +4 °C

**Danger** H317-H334

For research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* diagnostics.



Art. No.	Pack Qty.	Pack.	€	€
0642.1	100 ml	plastic	45,70	35,35
0642.2	500 ml	plastic	122,45	95,45

## ROTI®Garose-His/Ni Beads for biochemistry

For isolation of His-tagged proteins by affinity chromatography.

Nickel charged IDA-agarose beads for low pressure affinity chromatography. Suspension in 20 % ethanol.

**For batch mode and gravity flow column chromatography**

Storage temperature: +4 °C

**Warning** H226-H319-EUH208



Art. No.	Pack Qty.	Pack.	€	€
1308.1	25 ml	plastic	298,75	233,00
1308.2	100 ml	plastic	885,20	628,00

ready-to-use

S

## ROTI®Stock 20 % SDS

**BioScience Grade, ready-to-use, sterile filtered**

For molecular biology and electrophoresis.

With original seal.

**Danger** H315-H318-H335



Art. No.	Pack Qty.	Pack.	€	€
1057.1	1 l	glass	149,45	116,50

## ROTI®Quant

**5x conc.**

For protein quantitation acc. to Bradford.

Storage temperature: +4 °C

**Danger** H226-H290-H314



Art. No.	Pack Qty.	Pack.	€	€
K015.2	50 ml	plastic	15,60	12,15
K015.3	200 ml	plastic	51,10	39,65
K015.1	500 ml	plastic	100,55	78,35

ready-to-use

## ROTISZINT®eco plus for scintillation

LSC-universal cocktail, for hydrophilic and lipophilic samples.

Multi-purpose, ready-to-use scintillation cocktail for Liquid Scintillation Counting (LSC) of  $\beta$  radiators (e.g.  $^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{32}\text{P}$ ). The cocktail is free of carcinogenic or environmentally dangerous reagents.

**Danger** H302-H315-H318-H412



Art. No.	Pack Qty.	Pack.	€	€
0016.4	100 ml	glass	19,25	15,00
0016.3	5 l	plastic	279,40	217,90

ready-to-use

## ROTI®Phenol/Chloroform/Isoamyl alcohol for the extraction of nucleic acids

**for the extraction of nucleic acids**

Redistilled, in TE-buffer equilibrated phenol, chloroform and isoamyl alcohol at a ratio of 25:24:1, pH 7,5-8,0.

Storage temperature: +4 °C

**Danger**

H301+H331-H312-H314-H341-H351-H361d-H372-H411



Art. No.	Pack Qty.	Pack.	€	€
A156.3	100 ml	glass	39,25	30,55
A156.1	250 ml	glass	77,30	60,05
A156.2	500 ml	glass	128,90	100,50

## Histology · Descaling and fixing media

**-22 %**

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Decalcifier soft <b>-30 %</b>	for histology	Decalcifier solution on base of EDTA. Used for gentle decalcification of bones and other calcified tissues. The solution is also suitable for immunological applications.	6484.1	500 ml	25,90	17,65
			6484.2	1 l	38,20	26,70
			6484.3	2.5 l	57,95	40,50
			6484.4	5 l	100,55	70,35
Formaldehyde solution 37 %	≥37 %, for synthesis	Fixative	7398.1	1 l	14,95	11,60
			7398.4	2.5 l	24,20	18,85
			7398.5	5 l	36,45	28,35
			7398.2	10 l	57,55	44,80
Formaldehyde solution 35 %	≥35 %, DAB, for histology	Fixative	7398.3	30 l	117,10	91,25
			4980.1	1 l	17,10	13,30
			4980.5	2.5 l	25,70	20,00
			4980.2	5 l	40,35	31,40
Paraformaldehyde, granulated	granulated	Fixative	4980.4	10 l	64,40	50,20
			4980.3	30 l	126,75	98,85
			0335.1	250 g	16,05	12,45
			0335.2	500 g	19,90	15,45
ROTI®Histofix 4 %	4 % formaldehyde, pH 7, acid-free	Fixative for histology and immunocytochemistry, stabilised with methanol.	0335.3	1 kg	27,85	21,35
			0335.4	5 kg	97,75	76,20
			P087.4	500 ml	10,65	8,25
			P087.6	1 l	13,45	10,45
ROTI®Histofix 4,5 % <b>-30 %</b>	4,5 % formaldehyde, pH 7, acid-free	Fixative for histology and immunocytochemistry, stabilised with methanol.	P087.5	2.5 l	17,75	13,80
			P087.3	5 l	28,50	22,20
			P087.1	10 l	52,60	40,70
			P087.2	30 l	136,45	106,35
ROTI®Histofix 10 %	10 % formaldehyde, pH 7, acid-free	Fixative for histology and immunocytochemistry, stabilised with methanol.	2213.4	500 ml	10,65	7,40
			2213.6	1 l	13,45	9,40
			2213.5	2.5 l	19,90	13,90
			2213.3	5 l	30,00	20,95
			2213.1	10 l	54,30	38,00
			2213.2	30 l	133,85	93,40
			A146.4	500 ml	12,80	9,90
			A146.6	1 l	15,60	12,15
			A146.5	2.5 l	27,45	21,30
			A146.3	5 l	45,05	35,10
			A146.1	10 l	73,00	56,90
			A146.2	30 l	177,40	138,35

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)**-25 %**

ready-to-use

**Bouin's fixative****for histology**

For fixing of histological specimens.

Bouin's fluid

The Bouin solution consists of picric acid, formaldehyde and acetic acid. It is particularly suitable for fixation prior to trichrome staining.

Storage temperature: +15 to +25 °C

Transport temperature: ambient temp.

**Danger** H302-H315-H317-H319-H335-H341-H350**Type analysis**

Appearance ..... yellow liquid

Odour ..... formaldehyde

Solution contains ..... picric acid, formaldehyde, acetic acid, dem. water

Art. No.	Pack Qty.	Pack.	€	€
6482.1	100 ml	glass	21,40	16,00
6482.2	250 ml	glass	38,60	28,90
6482.3	500 ml	glass	53,25	39,65
6482.4	1,000 ml	glass	83,35	62,20



## Histology · Reagents

**-22%**


Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Eosin Y solution 0.5 % in water	0,5 %, in water, for microscopy	For visualising cell structures during standard staining methods (H&E staining).	X883.1	500 ml	21,40	16,65
			X883.2	1 l	31,75	24,60
			P075.1	1 l	83,35	64,95
			P075.3	1 l	81,20	63,25
			P075.2	2.5 l	174,70	136,25
			P075.4	2.5 l	172,55	134,25
			P075.5	5 l	322,40	251,40
			P075.6	10 l	504,20	393,20
			P075.7	10 l	493,45	384,70
			P075.8	25 l	1.063,20	829,25
Giemsa stock solution	for microscopy	For differential staining of blood and bone marrow smears.	T862.1	500 ml	28,95	22,50
			T862.2	1 l	41,85	32,55
			T862.3	2.5 l	88,05	68,60
Hemalum solution acid acc. to Mayer	for microscopy	For visualising nuclei.	T865.1	500 ml	29,60	20,65
			T865.2	1 l	46,15	32,10
			T865.3	2.5 l	85,90	60,05
Kaiser's glycerol gelatine phenol-free	for microscopy	Aqueous mounting medium	6474.1	50 ml	19,25	15,00
May-Gruenwald's solution	for microscopy	For differential staining of blood smears and cytological specimens.	T863.1	500 ml	24,65	19,15
			T863.2	1 l	32,15	25,05
			T863.3	2.5 l	64,40	50,20
Nuclear fast red aluminium sulphate solution 0.1 %	0,1 %, for microscopy	For visualising nuclei e.g. during Elastica Staining.	N069.1	500 ml	45,70	35,35
			N069.2	1 l	75,15	58,55
			N069.3	2.5 l	149,45	116,50
ROTICLEAR®	for histology	Clearing agent of aliphatic hydrocarbons, practically free from aromatic compounds. For dewaxing of histological sections. Alternative product for xylene.	A538.1	1 l	17,10	13,30
			A538.5	2.5 l	32,15	25,05
			A538.2	10 l	96,25	75,00
			A538.3	25 l	190,85	148,80
			A538.4	200 l	848,20	661,55
ROTI®Histokitt	Synthetic mounting medium, for histology	Compatible with Roti®-Histol (Art. No. 6640).	6638.1	100 ml	13,90	10,60
			6638.2	500 ml	38,60	30,10
ROTI®Histokitt II	Synthetic mounting medium, for histology	Compatible with xylene (e.g. Art. No. 9713).	T160.1	100 ml	14,55	11,25
			T160.2	500 ml	39,25	30,55
ROTI®Histol	for histology	Clearing agent on base of limonene. For dewaxing of histological sections. Alternative product for xylene.	6640.1	1 l	31,10	21,70
			6640.4	2.5 l	60,75	42,50
			6640.5	5 l	102,05	71,35
			6640.2	10 l	181,70	127,15
			6640.6	25 l	408,00	285,55
ROTI®Mount	synthetic mounting medium, for histology	Compatible with Roticlear® (Art. No. A538) and n-Butyl acetate (Art. No. P036).	HP68.1	100 ml	22,05	17,15
			HP68.2	500 ml	70,85	55,25
ROTI®Mount FluorCare	for fluorescence microscopy	Aqueous mounting medium with antifading effect for fluorescent dyes.	HP19.1	15 ml	60,10	46,85
ROTI®Mount FluorCare DAPI	for fluorescence microscopy	Aqueous mounting medium with antifading effect for fluorescent dyes. Contains DAPI for counterstaining.	HP20.1	15 ml	73,65	57,40
ROTI®Plast	100 %, paraffin in pellets, for histology	Melting range: 54-56 °C	6642.1	1 kg	18,85	14,65
			6642.5	2.5 kg	34,30	26,70
			6642.2	10 kg	117,75	91,80
			6642.6	20 kg	200,50	156,35
Schiff's reagent	for microscopy	Staining reagent for detection of carbohydrates in tissue (PAS reaction).	X900.1	500 ml	24,65	19,15
			X900.2	1 l	35,40	27,55

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)

\* Prices include german tax on alcohol



# Cell Culture Nutrient Media & Solutions


**-22%**

ready-to-use

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- Sterile
- Shipped at ambient temperature

**TIP** Media with \*stable glutamine can be stored at room temperature

Product name	Glucose g/l	Glutamin (mM)	HEPES (mM)	Sodium Pyruvate (mM)	NaHCO <sub>3</sub> (mM)	Phenol Red	Salts	Art. No.	Pack Qty.	€	€
ROTI®Cell DMEM High Glucose	4,5	4 stab.*	X	1	44	yes	X	9007.1	500 ml	14,95	11,60
ROTI®Cell DMEM Low Glucose	1,0	X	X	1	44	yes	X	9027.1	500 ml	13,90	10,60
ROTI®Cell DMEM : F12	3,151	2,5	15	1	14,3	yes	X	9031.1	500 ml	16,70	12,75
ROTI®Cell Eagle's MEM / Earle's	1	2	X	X	26,2	yes	Earle's	9044.1	500 ml	14,95	11,60
	2	2 stab.*	X	X	23,8	yes	X	9091.1	500 ml	14,95	11,60
ROTI®Cell RPMI-1640	2	2 stab.*	25	X	23,8	yes	X	9093.1	500 ml	18,20	13,85
	2	X	X	X	23,8	X	X	9104.1	500 ml	17,10	13,30


**-22%**

ready-to-use

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- Sterile
- All products in CELLPURE® quality – with particularly low endotoxin content

Product name	Purity	General application	Instructions for use	Art. No.	Pack Qty.	€	€
ROTI®Cell DPBS <b>-30%</b>	sterile, w/o Ca/Mg	Balanced salt solution acc. to Dulbecco for cell culture	ready-to-use	9124.1	500 ml	14,55	10,15
				9124.2	1 l	21,40	14,90
ROTI®Cell 10x DPBS	10x conc., sterile, w/o Ca/Mg	Balanced salt solution acc. to Dulbecco for cell culture	10x ready-made solution	9130.1	500 ml	18,85	14,65
				9130.2	1 l	23,55	18,15
ROTI®Cell Glutamine solution	200 mM, sterile	For cell culture	Temperature-stable solution in 145 mM NaCl	9183.1	100 ml	19,90	15,45
ROTI®Cell Hanks' BSS	sterile, w/o Ca/Mg, w/o phenol red	Balanced salt solution acc. to Hanks for cell culture	ready-to-use	9117.1	500 ml	12,40	9,60
	sterile, with Ca/Mg, with Phenolrot	Balanced salt solution acc. to Hanks for cell culture	ready-to-use	9122.1	500 ml	17,10	13,30
ROTI®Cell HEPES solution	1 M, sterile	For cell culture	Solution in 145 mM NaCl	9157.1	100 ml	24,65	19,15
ROTI®Cell Myco-Free <b>-30%</b>	50x conc., sterile, ready-to-use	For elimination of mycoplasma contamination in cell culture.	One bottle of 100 ml is sufficient for approx. 300 applications.	9830.1	100 ml	235,45	164,80
ROTI®Cell PBS	sterile, w/o Ca/Mg	Balanced salt solution for cell culture	ready-to-use	9143.1	500 ml	13,45	10,45
				9143.2	1 l	16,05	12,45
ROTI®Cell 10x PBS	10x conc., sterile, w/o Ca/Mg	Balanced salt solution for cell culture	10x ready-made solution	9150.1	1 l	21,40	16,65
ROTI®CELL Water <b>-30%</b>	sterile	For cell culture	Endotoxins: <0.25 E.U./ml	9186.1	500 ml	10,65	7,40
				9186.2	1 l	16,05	11,15

For research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* diagnostics.  
For additional information, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)



# Cell Analysis Assays **-30%**



## ROTITEST®Annexin V **ready-to-use**

### ROTITEST® Bio Analysis

For detection and enumeration of apoptotic cells and simultaneous differentiation from necrosis.

Apoptosis detection Kit, Annexin-FITC conjugate

- Simple, rapid application
- For adherent and suspension cells
- For cultured and primary cells (also for yeast cells)
- Discriminating between apoptotic and necrotic cells
- Result in approx. 30 minutes

#### The kit contains

Annexin V-FITC conjugate, propidium iodide solution, Annexin V binding buffer, detailed instructions-for-use. Excluding the columns, contents of this Kit may not be bought separately.

Store protected from light.

1 set is sufficient for analysis of 50 samples of  $10^5$  cells each

Storage temperature: +4 °C

Art. No.	Pack Qty.	Pack.	€	€
7735.1	1 kit	cardboard	223,10	<b>156,10</b>



## ROTITEST®Vital **ready-to-use** **S**

### ROTITEST® Bio Analysis

Colorimetric test solution for evaluation of cell proliferation and -viability. Non toxic.

#### Optimum replacement for MTT:

- Cells keep on being vital
- Most simple handling
- One-component-system without radioactivity
- For adherent and suspension cells
- Photometric result in 1 to 4 hours
- Strong correlation between absorbance and cell number
- Suitable for every culture media

Stable at ambient temperature. Very stable when being cooled. Store protected from light. Do not freeze.

1 ml is sufficient for enumeration of 100 cell samples.

Storage temperature: +4 °C

Art. No.	Pack Qty.	Pack.	€	€
0069.3	1 ml	plastic	65,50	<b>45,80</b>
0069.1	5 ml	plastic	182,25	<b>127,55</b>
0069.2	20 ml	plastic	547,20	<b>383,00</b>

# Antibiotics for Cell Culture **-25%**

## Ampicillin sodium salt

### CELLPURE® ≥91 %

β-lactam antibiotic. Semi synthetic penicillin. For cell culture and biochemistry.

Endotoxins: <0.15 E.U./mg

**Danger** H317-H334

Art. No.	Pack Qty.	Pack.	€	€
HP62.1	10 g	plastic	49,95	<b>36,95</b>
HP62.2	50 g	plastic	182,65	<b>136,95</b>

## Pen/Strep-PreMix

### CELLPURE®

Antibiotic compound of penicillin, streptomycin and stabilising sodium chloride for application in cell culture.

PreMix powder for 2x 50 ml 100x stock solution (for 10 l medium total).

- Penicillin: 10.000 I.U. / ml
- Streptomycin: 10 mg / ml
- Sodium chloride: 0.9 %

Endotoxin content per vial: ≤210 I.U. complies ≤4.2 I.U. / ml

**Danger** H302-H317-H334-H361d

Art. No.	Pack Qty.	Pack.	€	€
HP10.1	1 set	plastic	65,50	<b>49,05</b>

## **ready-to-use** **S**

## Geneticin disulphate (G418) solution

### CELLPURE® 50 mg/ml, sterile

Aminoglycoside antibiotic.

Endotoxins: <10 E.U./ml.

Storage temperature: +4 °C

**Danger** H317-H334

Art. No.	Pack Qty.	Pack.	€	€
CP11.1	10 ml	plastic	72,60	<b>54,40</b>
CP11.2	20 ml	plastic	97,90	<b>72,90</b>
CP11.3	100 ml	plastic	345,65	<b>258,95</b>

## **ready-to-use** **S**

## Geneticin disulphate (G418) solution

### 50 mg/ml, BioScience Grade, sterile

Aminoglycoside antibiotic.

Storage temperature: +4 °C

**Danger** H317-H334

Art. No.	Pack Qty.	Pack.	€	€
2039.1	10 ml	plastic	67,65	<b>50,40</b>
2039.2	20 ml	plastic	89,15	<b>66,50</b>
2039.3	100 ml	plastic	336,40	<b>252,25</b>

## **ready-to-use** **S**

## Hygromycin B solution

### CELLPURE® 50 mg/ml, sterile

Aminoglycoside antibiotic.

Storage temperature: +4 °C

**Danger**

H301-H310+H330-H317-H318-H334

Art. No.	Pack Qty.	Pack.	€	€
CP12.1	10 ml	plastic	122,05	<b>91,25</b>
CP12.2	20 ml	plastic	209,65	<b>157,20</b>

## **ready-to-use** **S**

## Hygromycin B solution

### 50 mg/ml in PBS, BioScience Grade, sterile

Sterile stock solution in PBS.

In a **septum bottle**.

Storage temperature: +4 °C

**Danger**

H301-H310+H330-H317-H318-H334

Art. No.	Pack Qty.	Pack.	€	€
1287.1	10 ml	glass	107,90	<b>80,20</b>
1287.2	20 ml	glass	167,20	<b>125,35</b>

# Reagents for the Molecular Biology

**-22%**
**DNase-free**
**Protease-free**

## Ribonuclease A

**90 U/mg (Kunitz), BioScience Grade, salt-free**

Acc. to Hirs, extracted from bovine pancreas.

Storage temperature: -20 °C

Transport temperature: ambient temp.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
7156.1	100 mg	glass	79,95	<b>61,60</b>
7156.2	500 mg	glass	349,40	<b>272,50</b>
7156.3	1 g	glass	579,45	<b>451,90</b>

## Dimethyl sulfoxide (DMSO)

**≥99,5 %, BioScience Grade, for molecular biology**

Recommended for PCR, sequencing, hybridisation and cell culture.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
A994.1	100 ml	glass	23,55	<b>18,15</b>
A994.2	250 ml	glass	37,10	<b>28,90</b>

## IPTG

**≥99 %, BioScience Grade, dioxane-free, animal-free**

For molecular biology.

Storage temperature: -20 °C

Transport temperature: ambient temp.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
2316.1	250 mg	glass	21,40	<b>16,65</b>
2316.2	1 g	glass	46,80	<b>36,40</b>
2316.3	5 g	glass	133,85	<b>104,15</b>
2316.4	25 g	plastic	439,70	<b>342,80</b>
2316.5	100 g	plastic	1.099,45	<b>787,30</b>

**NEW**
**DNase-free**


## Ligase Tth

**5 U/μl, for molecular biology**

NAD-dependent ligase for molecular cloning.

- stable at high temperatures
- ligates double-stranded DNA
- Repairs single strand breaks in double stranded DNA

Storage temperature: -20 °C

Transport temperature: cooled

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
3736.1	50 μl	plastic	89,80	<b>69,75</b>
3736.2	500 μl	plastic	560,00	<b>436,75</b>

**NEW**
**DNase-free**
**RNAse-free**

## Proteinase K

**≥35 U/mg, BioScience Grade, lyophilised**

 High-quality endopeptidase for molecular biology. Isolated from fungi (*Tritirachium album*).

**Advantages:**

- High solubility
- High specific activity
- Extremely low DNA content

**Activity:** ≥ 35 U/mg lyophilizate

**Specific activity:** ≥ 45 U/mg protein

**DNA content:** ≤ 0.1 pg/mg

Storage temperature: -20 °C

Transport temperature: ambient temp.

WGK 1

**Danger** H315-H317-H319-H334-H335

Art. No.	Pack Qty.	Pack.	€	€
3726.1	100 mg	glass	162,25	<b>126,50</b>
3726.2	1 g	glass	773,50	<b>603,25</b>


**DNase-free**
**ready-to-use**
**RNAse-free**
**S**

## Water

**nuclease-free, autoclaved, DEPC-treated water**

For molecular biology.

After autoclaving, each lot is photometrically tested for optimal purity in the wave length range relevant for nucleic acid research.

Art. No.	Pack Qty.	Pack.	€	€
T143.4	50 ml	plastic	98,80	<b>69,10</b>
T143.6	50 ml	glass ampoule	111,70	<b>78,15</b>
T143.5	100 ml	glass	24,65	<b>17,05</b>
T143.1	250 ml	glass	27,45	<b>19,15</b>
T143.2	500 ml	glass	92,15	<b>22,45</b>
T143.3	1 l	glass	99,25	<b>27,45</b>

**-30%**
**NEW**
**DNase-free**
**RNAse-free**

**ready-to-use**
**S**

## Proteinase K - Solution

**20 mg/ml, for biochemistry and molecular biology**

 Non-specific protease for degrading proteins in biological samples. Isolated from fungi (*Tritirachium album*).

- Sterile ready-to-use solution
- Specific activity: ≥ 800 U/ml
- Stable over a wide pH range: 4.0–12.5
- Active at high temperatures and denaturing conditions

Ready made solution

Storage temperature: -20 °C

Transport temperature: cooled

WGK 1

**Danger** H317-H334

Art. No.	Pack Qty.	Pack.	€	€
3719.1	1 ml	glass	33,25	<b>25,65</b>
3719.2	5 ml	glass	128,90	<b>100,50</b>

**DNase-free**
**RNAse-free**
**Protease-free**

## X-β-Gal

**≥99 %, BioScience Grade**

Colorimetric substrate of β-galactosidase. For biochemistry and molecular biology.

Ideal for colorimetric detection of β-galactosidase activity, for instance during blue-/white selection.

Storage temperature: -20 °C

Transport temperature: ambient temp.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
2315.1	100 mg	glass	22,05	<b>17,15</b>
2315.2	500 mg	glass	64,00	<b>49,85</b>
2315.3	1 g	glass	119,25	<b>92,95</b>
2315.4	5 g	glass	402,60	<b>313,75</b>

**NEW**
**DNase-free**


## Ligase T4

**5 U/μl, for molecular biology**

ATP-dependent recombinant ligase for molecular cloning.

- Cloning of PCR and restriction fragments
- Self-circulation of linear DNA
- Site-directed mutagenesis

Storage temperature: -20 °C

Transport temperature: cooled

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
3729.1	100 μl	plastic	100,55	<b>78,35</b>
3729.2	500 μl	plastic	334,90	<b>261,15</b>





# Molecular Biology / PCR

**-30 %**
**ready-to-use**

## ROTI®Pol DNA Polymerases master mixes

2x concentrated **master mixes as combination of Taq-Polymerase + nucleotides + MgCl<sub>2</sub> + buffer** for PCR.

Fast and easy to pipett, for highly reproducible PCR assays with your own specific primers and templates. Mixes with red dye are suitable for direct gel loading after PCR.



Product name	Purity	Application	Amplicon ends	Art. No.	Pack Qty.	€	€
ROTI®Pol TaqS	5 U/μl	Standard PCR	3'dA	9223.1	100 μl	64,40	45,00
				9223.2	500 μl	306,40	214,45
ROTI®Pol TaqS Mix (2x)	2x conc., ready-to-use	Standard PCR	3'dA	9239.1	2.5 ml	45,70	31,95
				9239.2	12.5 ml	184,40	128,85
ROTI®Pol TaqS Red-Mix (2x)	2x conc., ready-to-use	Standard PCR with subsequent gel loading	3'dA	9241.1	2.5 ml	50,00	34,95
				9241.2	12.5 ml	196,90	139,20
ROTI®Pol Hot-TaqS Mix (2x)	2x conc., ready-to-use	Particularly sequence specific standard PCR	3'dA	9248.1	2.5 ml	69,80	48,80
				9248.2	12.5 ml	321,45	225,00
ROTI®Pol Hot-TaqS Red-Mix (2x)	2x conc., ready-to-use	Particularly sequence specific standard PCR with subsequent gel loading	3'dA	9256.1	2.5 ml	72,60	50,75
				9256.2	12.5 ml	332,20	232,50
ROTI®Pol TaqHY	5 U/μl	Fast PCR protocols and/or high yield, GC rich template DNA	3'dA	9345.1	100 μl	72,60	50,75
				9345.2	500 μl	332,20	232,50
ROTI®Pol ProofRead	5 U/μl	High fidelity PCR with exact sequence replication	blunt	9344.1	40 μl	83,75	58,55
				9344.2	200 μl	385,95	270,15
ROTI®Pol TaqUltra	5 U/μl, DNA-free	PCR of bacterial gDNA	3'dA	9347.1	40 μl	152,15	106,30
				9347.2	200 μl	747,15	522,95

For research use only. Not approved for use in clinical or *in vitro* diagnostics.

Store at -20 °C • Transport temp.: cooled


**ready-to-use**
**-25 %**

## Nucleotides by ROTH

Ultra pure • Stable • Tested

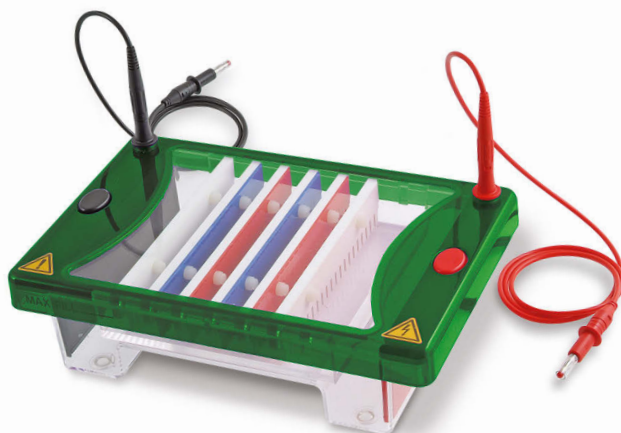
Product name	Purity	Packaging	Art. No.	Pack Qty.	€	€
dNTP-Set 1	≥99 % dATP, dTTP, dGTP, dCTP	4 x 25 μmol (250 μl), 100 mM	K039.1	1 set	106,35	79,40
		5 x 4 x 25 μmol (250 μl), 100 mM	K039.2	1 set	438,10	328,50
dNTP-Set 1 (pH 7)	≥99 % dATP, dTTP, dGTP, dCTP	4 x 25 μmol (250 μl), 100 mM	0178.1	1 set	106,35	79,40
		5 x 4 x 25 μmol (250 μl), 100 mM	0178.2	1 set	438,10	328,50
ROTI®Mix PCR 1	2 mM (/dNTP), 8 mM (total), dATP, dTTP, dGTP, dCTP	1 x 1 ml	L541.1	1 ml	25,30	18,90
		5 x 1 ml	L541.2	5 ml	99,90	74,85
ROTI®Mix PCR 3	10 mM (/dNTP), 40 mM (total), dATP, dTTP, dGTP, dCTP	1 x 0.2 ml	L785.1	0.2 ml	25,30	18,90
		5 x 0.2 ml	L785.2	1 ml	99,90	74,85
		5 x 1 ml	L785.3	5 ml	407,45	305,55
ROTI®Mix PCR 3 (pH 7)	10 mM (/dNTP), 40 mM (total), dATP, dTTP, dGTP, dCTP	1 x 0.2 ml	0179.1	0.2 ml	25,30	18,90
		5 x 0.2 ml	0179.2	1 ml	99,90	74,85

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)

## Electrophoresis · Agarose Gels

**-22 %**

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
100 bp-DNA-Ladder <i>equimolar</i>	lyophilised, not pre-dyed	Size range: 100-1000 bp Number of fragments: 11 Number of lanes per 100 µg: approx. 200 (mini gels)	<b>T834.1</b>	50 µg	80,55	<b>62,75</b>
			<b>T834.2</b>	4 x 50 µg	306,40	<b>238,95</b>
100 bp-DNA-Ladder <i>extended</i>	lyophilised, not pre-dyed	Size range: 100-5000 bp Number of fragments: 17 Number of lanes per 100 µg: approx. 160 (mini gels)	<b>T835.1</b>	50 µg	80,55	<b>62,75</b>
			<b>T835.2</b>	4 x 50 µg	306,40	<b>238,95</b>
pBR328-Marker ready-to-use	ready-to-use, not pre-dyed	Size range: 154-2176 bp Number of fragments: 11 Number of lanes per ml: approx. 200 (mini gels)	<b>X902.1</b>	500 µl	68,90	<b>53,20</b>
			<b>X902.2</b>	4 x 0,5 ml	256,95	<b>200,35</b>
Ethidium bromide solution 0.025 % in dropper bottle	250 µg/ml in water, ready-to-use	For staining of DNA or RNA in agarose gels during electrophoresis.	<b>HP47.1</b>	15 ml	32,15	<b>25,05</b>
			<b>HP47.2</b>	5 x 15 ml	111,70	<b>86,95</b>
Ethidium bromide solution 0.5 % in dropper bottle	5 mg/ml in water, ready-to-use	For staining of DNA/RNA after electrophoresis and for counterstaining of nuclei in histology and cytology.	<b>HP46.1</b>	15 ml	32,15	<b>25,05</b>
			<b>HP46.2</b>	5 x 15 ml	111,70	<b>86,95</b>
ROTI®Fair 50x TAE	for 1 000 ml/pouch, for electrophoresis	Buffer concentrate for DNA electrophoresis.	<b>1240.1</b>	5 unit(s)	779,40	<b>607,90</b>
ROTI®Fair 10x TBE	for 1 000 ml/pouch, for electrophoresis	Buffer concentrate for DNA electrophoresis.	<b>1243.1</b>	10 unit(s)	301,55	<b>235,15</b>
ROTI®GelStain <b>-30 %</b>	ready-to-use, for electrophoresis	For non-toxic fluorescent staining of nucleic acids in agarose gels. Green fluorescence.	<b>3865.1</b>	1 ml	99,45	<b>69,60</b>
			<b>3865.2</b>	5 x 1 ml	439,70	<b>307,75</b>
ROTI®GelStain Red <b>-30 %</b>	ready-to-use, DNase-free, RNAse-free, for electrophoresis	Red fluorescent staining reagent for non-toxic staining of nucleic acids in agarose and polyacrylamide gels.	<b>0984.1</b>	1 ml	105,25	<b>73,60</b>
			<b>0984.2</b>	5 x 1 ml	461,20	<b>322,80</b>
ROTI®Load DNA (with glycerol)	6x conc., DNase-free	DNA-gel loading buffer for DNA gel electrophoresis of routine gels.	<b>X904.1</b>	5 x 1,8 ml	41,40	<b>32,10</b>
ROTI®Load DNA orange 1 (with glycerol)	6x conc., DNase-free	DNA-gel loading buffer for DNA gel electrophoresis, optimised for very short separation distances and small fragments. Suitable for high concentrated or High Resolution agarose.	<b>HP04.1</b>	5 x 1,8 ml	53,25	<b>41,50</b>
ROTIPHORESE®10x TAE Buffer	10x conc.	Running buffer in DNA agarose gel electrophoresis.	<b>T845.1</b>	1 l	31,75	<b>24,60</b>
			<b>T845.2</b>	5 l	74,75	<b>58,25</b>
ROTIPHORESE®50x TAE Buffer	50x conc.	Running buffer in DNA agarose gel electrophoresis.	<b>CL86.1</b>	1 l	62,90	<b>49,00</b>
			<b>CL86.3</b>	2.5 l	119,90	<b>93,45</b>
			<b>CL86.2</b>	5 l	184,40	<b>143,75</b>
ROTIPHORESE®10x TBE Buffer	10x conc.	TBE-buffer for preparing sequencing gels and as running buffer in electrophoresis.	<b>3061.1</b>	1 l	29,60	<b>23,05</b>
			<b>3061.3</b>	2.5 l	60,10	<b>46,85</b>
			<b>3061.2</b>	5 l	93,45	<b>72,80</b>

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)**-30 %**

### Electrophoresis Unit ROTIPHORESE®PROfessional III

- Made of robust acrylic glass
- Injection moulded without bonding
- Absolutely leak proof
- UV-transparent gel trays

#### Technical specifications:

Art. No.	<b>2850.1</b>
Type	PROfessional III
L x W, gel	15 x 15
Max. number of samples	210
Comb positions	6
Buffer volume	500 ml
L x W x H, device	26.5 x 17.5 x 9 cm

#### For all standard analyses

- Electrophoresis chamber with accessories – ready for use
- Gel casting outside the chamber with gel casting gates
- For high flexibility in application: Gel trays with 7, 10 and 15 cm length available
- Seven different combs available in four thicknesses, including preparative combs with broad wells
- Compatible with multi-channel pipettors (combs with 16 and 28 teeth)
- For real-time electrophoresis upgradeable with ROTIPHORESE® PROfessional runVIEW Base (Art. No. 4850.1)

**Delivery incl.** 1 horizontal gel chamber, 1 safety lid with integral power leads (4 mm plugs), 1 UV-transparent gel casting tray (15 x 15 cm) with 2 gel casting gates, 2 combs (1 mm, 20 teeth).

Type	Art. No.	Pack Qty.	€	€
PROfessional III	<b>2850.1</b>	1 unit(s)	467,65	<b>327,30</b>



# Electrophoresis · PAGE

**-22%**

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
ROTI®Blue	5x conc.	Colloidal Coomassie® staining solution for protein gels.	A152.2	250 ml	93,25	25,65
			A152.1	1 l	96,65	75,10
ROTI®Blue quick	1x conc., ready-to-use	For rapid, sensitive staining of protein gels.	4829.1	250 ml	69,80	54,40
			4829.2	1 l	298,15	185,70
ROTI®Load 1	4x conc., reducing	Protein gel loading buffer, modified formulation acc. to Laemmli.	K929.1	10 ml	18,85	14,65
			K929.2	4 x 10 ml	55,40	42,85
			K929.3	10 x 10 ml	127,40	99,30
ROTI®Load 2	4x conc., unreducing	Protein gel loading buffer, modified formulation acc. to Laemmli. For protein complexes, secondary structures, and for native gels.	K930.1	10 ml	16,05	12,45
ROTI®Mark BI-PINK	protein marker, ready-to-use, pre-dyed	Size range: 10-175 kD Number of protein bands: 11 Number of lanes/ml: approx. 200 (mini gels)	8269.1	500 µl	178,35	139,10
ROTI®Mark TRICOLOR	protein marker, ready-to-use, pre-dyed	Size range: 10-245 kD Number of protein bands: 12 Number of lanes/ml: approx. 200 (mini gels)	8271.2	250 µl	96,25	75,00
			8271.1	2 x 250 µl	177,40	138,35
ROTI®Mark TRICOLOR XTRA	protein marker, ready-to-use, pre-dyed	Size range: 10-310 kD Number of protein bands: 12 Number of lanes/ml: approx. 200 (mini gel)	2244.1	250 µl	107,40	83,70
			2244.2	2 x 250 µl	198,90	155,10
ROTIPHORESE®Gel 30 (37.5:1)	30 %, ready-to-use, gas-stabilized	Aqueous acrylamide and bisacrylamide stock solution at a ratio of 37.5:1 for preparation of protein gels.	3029.3	250 ml	26,35	18,40
			3029.2	500 ml	40,75	28,45
			3029.1	1 l	69,35	48,25
ROTIPHORESE®Gel 40 (37.5:1)	40 %, ready-to-use, gas-stabilized	Aqueous acrylamide and bisacrylamide stock solution at a ratio of 37.5:1 for preparation of protein gels.	T802.2	250 ml	91,75	24,60
			T802.1	1 l	77,90	60,05
ROTIPHORESE®Gel 40 (19:1)	40 %, ready-to-use, gas-stabilized	Aqueous acrylamide and bisacrylamide stock solution at a ratio of 19:1 for preparation of DNA gels.	3030.2	250 ml	93,25	25,65
			3030.1	1 l	80,55	62,75
ROTIPHORESE®PAGE Matrix Buffer plus	4x conc., for electrophoresis	Ready-made buffer solution for pouring of optimized SDS-PAGE gels.	8996.1	250 ml	120,95	94,30
ROTIPHORESE®10x SDS-PAGE	10x conc.	SDS-PAGE running buffer in electrophoresis.	3060.1	1 l	99,25	30,55
			3060.3	2.5 l	70,85	55,25
			3060.2	5 l	103,10	80,40
			2367.3	25 ml	20,35	15,80
TEMED	≥99 %, p.a., for electrophoresis	Catalyst for acrylamide polymerisation in PAGE	2367.1	100 ml	40,75	31,75
			2367.2	250 ml	81,60	63,60

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)


**①**

**②**
**-30%**

## ROTH Power Supplies

### The Carl ROTH series - mature technology in modern design

Three units for all applications in electrophoresis: MINI, STANDARD and BLOT.

- Compact and easy to operate
- Constant parameters
- Timer with alarm function
- Comply to all relevant safety standards
- 1 year warranty

### Power Pro models (Roth STANDARD and Roth BLOT):

- Up to 30 individual protocols with 1–6 steps savable
- Pre-programmed options for special applications
- Connection with up to 5 units possible.

### ① ROTH Power Supply MINI

For horizontal mini gels, rapid analyses of nucleic acids and for students courses.

Connection with up to 2 units possible.

Type	Art. No.	Pack Qty.	€	€
MINI (nanoPAC-300P)	2907.1	1 unit(s)	510,65	357,40

### ② ROTH Power Supply STANDARD

For standard applications, all middle sized horizontal gels (routine gels) and for vertical mini gels. Suitable for cold-room operation.

Type	Art. No.	Pack Qty.	€	€
STANDARD (PowerPro3200)	2908.1	1 unit(s)	662,20	463,20

### ② ROTH Power Supply BLOT

For large dimension horizontal gels, vertical maxi gels (e.g. 20 x 20 cm) and blotting. For high flexibility in application.

Connection with up to 5 units possible. IQ/OQ protocols possible. Suitable for cold-room operation.

Type	Art. No.	Pack Qty.	€	€
BLOT (PowerPro3AMP)	2909.1	1 unit(s)	1.236,25	865,35

# Blotting · Topseller



## Blotting Membranes

Product	Dimensions	Pore size	Art. No.	Pack Qty.	€	€
ROTI®Nylon plus	300 × 30	0,45 µm	<b>K058.1</b>	1 roll(s)	310,70	<b>242,30</b>
ROTI®PVDF	375 × 26.5	0,45 µm	<b>T830.1</b>	1 roll(s)	350,45	<b>262,80</b>
MILLIPORE Immobilon®-P	375 × 26.5	0,45 µm	<b>T831.1</b>	1 roll(s)	437,55	<b>328,10</b>
ROTI®NC	300 × 30	0,2 µm	<b>HP40.1</b>	1 roll(s)	277,35	<b>208,00</b>
Amersham Protran® NC	400 × 30	0,45 µm	<b>4675.1</b>	1 roll(s)	491,30	<b>393,00</b>

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)



## Blotting Papers

Product	L x W	Thickness	Art. No.	Pack Qty.	€	€
ROTILABO®Blotting paper	57 x 46 cm	0.35 mm	<b>CL66.1</b>	100 sheet	237,60	<b>178,15</b>
	60 x 58 cm		<b>CL67.1</b>	100 sheet	274,15	<b>205,55</b>
ROTILABO®Blotting paper	60 x 58 cm	1.0 mm	<b>CL74.1</b>	25 sheet	159,00	<b>119,25</b>
ROTILABO®Blotting paper	60 x 58 cm	1.5 mm	<b>CL75.1</b>	25 sheet	217,90	<b>163,40</b>
Gel blotting paper Whatman®	58 x 58 cm	1.5 mm	<b>A126.1</b>	25 sheet	393,00	<b>358,90</b>

Additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)



## Reagents

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Glycine	≥99 %, Blotting Grade	For Western blotting	<b>0079.1</b>	250 g	27,45	<b>20,30</b>
			<b>0079.2</b>	500 g	51,10	<b>38,25</b>
			<b>0079.3</b>	1 kg	81,20	<b>60,85</b>
			<b>0079.4</b>	2.5 kg	160,75	<b>120,25</b>
Methanol	≥99,9 %, Blotting Grade	For Western blotting	<b>0082.1</b>	500 ml	29,55	<b>17,60</b>
			<b>0082.2</b>	1 l	31,75	<b>23,50</b>
			<b>0082.3</b>	2.5 l	65,50	<b>49,05</b>
Powdered milk <b>-30 %</b>	Blotting Grade, powdered, low in fat	For biochemistry, molecular biology and microbiology	<b>T145.1</b>	250 g	14,95	<b>10,40</b>
			<b>T145.2</b>	500 g	29,55	<b>16,45</b>
			<b>T145.3</b>	1 kg	38,20	<b>26,70</b>
			<b>T145.5</b>	2.5 kg	80,55	<b>56,30</b>
			<b>T145.4</b>	5 kg	149,45	<b>104,60</b>
ROTI®Block <b>-30 %</b>	10x conc., ready-to-use	Protein free blocking solution	<b>A151.1</b>	250 ml	53,25	<b>37,25</b>
			<b>A151.4</b>	500 ml	89,80	<b>62,80</b>
			<b>A151.2</b>	1 l	161,15	<b>112,75</b>
ROTI®Fair TG-Western	for 1 000 ml/pouch	Buffer for protein electrophoresis and transfer.	<b>1269.1</b>	10 unit(s)	85,90	<b>64,35</b>
	for 5 000 ml/pouch	Buffer for protein electrophoresis and transfer.	<b>1276.1</b>	10 unit(s)	184,80	<b>138,55</b>
			<b>0183.1</b>	100 g	52,60	<b>39,40</b>
SDS	≥99 %, Blotting Grade	For Western- and Southern blotting	<b>0183.2</b>	250 g	110,20	<b>82,60</b>
			<b>0183.3</b>	500 g	178,35	<b>133,70</b>
			<b>0188.1</b>	250 g	38,20	<b>28,60</b>
TRIS	≥99,9 %, Blotting Grade	For Western blotting and immunodetection	<b>0188.2</b>	500 g	64,40	<b>48,25</b>
			<b>0188.3</b>	1 kg	106,35	<b>79,40</b>
			<b>0188.4</b>	2.5 kg	203,75	<b>152,50</b>

For safety information and additional data, see our current catalogue or at [www.carlroth.com](http://www.carlroth.com)

► Albumins see p. 5 on the reverse side of this brochure