Top Offers

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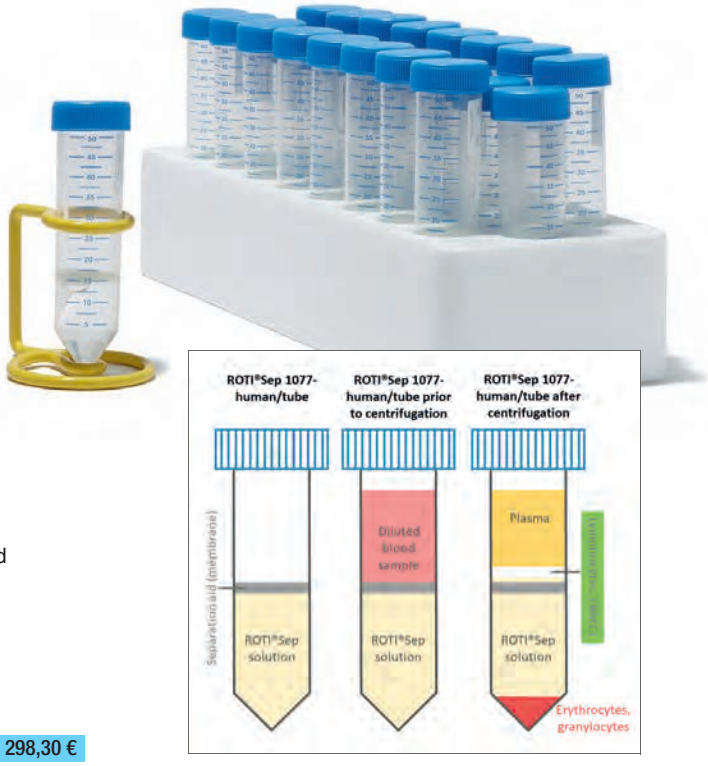
Life Science

-25 % ready-to-use S

Roti®-Sep 1077 human/tube



CELLPURE® sterile
For density gradient centrifugation

Polysucrose based medium for separation of lymphocytes from human whole blood. Prefilled in centrifugation tubes, 50 ml each.
Density 1,077 g/ml.

M ~400000 g/mol

- Optimised for isolation of lymphocytes from non-coagulated human whole blood
- Produces distinct, compact layers
- Results in high recovery rates of viable cells
- Maintains the representative ratio of B- to T lymphocytes
- May be directly applied to all protocols using Ficoll®

Recommended long-term storage at approx. 4 °C. Short-term storage at ambient temperature possible. Store protected from light.

0634.1	25 x 50 ml	cardboard	~~397,75~~	**298,30 €**

Carl Roth GmbH + Co. KG · Schoemperlenstraße 3-5 · 76185 Karlsruhe

Valid from 2 January to 29 February 2020

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For ordering and information about prices and delivery in your country please contact us or your local distributor. Contact: www.carlroth.com/en/en/Contact

All supplies and deliveries are subject to the terms and conditions of sale and delivery of Carl Roth GmbH + Co. KG, Karlsruhe.

Popular **ready-to-use Solutions** -25 %

ready-to-use S

Roti®-Stock 20 % SDS

BioScience-Grade, ready-to-use, 0,2 µm filtered

For molecular biology and electrophoresis.
SDS 20 % ready-to-use solution

Danger H318-H315-H335

20 % stock solution sodium dodecyl sulphate.
With original seal.

1057.1	1 l	glass	~~143,55~~	107,35 €

ready-to-use

Rotiphorese® Gel 30 (37,5:1)

ready-to-use, gas stabilised, aqueous 30 % acrylamide and bisacrylamide stock solution at a ratio of 37,5:1

For preparation of protein gels in electrophoresis.
Storage temp.: +8 °C

Danger H302-H315-H317-H319-H340-H350-H361f-H372

3029.3	250 ml	glass	~~25,30~~	18,90 €
3029.2	500 ml	glass	~~39,25~~	29,40 €
3029.1	1 l	glass	~~66,55~~	49,85 €

ready-to-use

Roti®-Phenol/Chloroform/Isoamyl alcohol

for 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 temp.: +4 °C

Danger

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

Covered with buffer and packed under argon.

A156.3	100 ml	glass	~~37,55~~	27,80 €
A156.1	250 ml	glass	~~75,15~~	56,30 €
A156.2	500 ml	glass	~~125,25~~	93,90 €

ready-to-use S

Hygromycin B solution

50 mg/ml, BioScience-Grade, sterile

Aminoglycoside antibiotic. For cell culture, biochemistry, molecular biology and microbiology. **In a septum bottle.**
Hygromycin B solution **in PBS**
$C_{20}H_{37}N_3O_{13}$ • M 527,53 g/mol • Storage temp.: +4 °C

Danger H301-H310+H330-H318-H334-H317

Sterile stock solution, suitable for cell culturing and microbiology, as well as for biochemical and biomolecular assays.
Extracted from *Streptomyces hygroscopicus*.

1287.1	10 ml	glass	~~103,10~~	77,25 €
1287.2	20 ml	glass	~~160,75~~	120,25 €

ready-to-use

Roti® Nucleic Acid-free

ready-to-use solution for removal of nucleic acid contaminations from surfaces

Warning H290-H315-H319

Roti®-Nucleic Acid-free was specifically designed for extensive removal of nucleic acid contaminations. Being a mild reagent, Roti®-Nucleic Acid-free may be used on tables, laboratory devices, as well as on glass and plastic wares.

HP69.1	500 ml	spray bottle	~~71,95~~	53,60 €
HP69.2	1 l	plastic	~~96,25~~	71,90 €
HP69.3	2,5 l	plastic	~~213,95~~	160,40 €

ready-to-use

Roti®-Histofix 4 %

acid free (pH 7), phosphate-buffered formaldehyde solution 4 %

Fixative for histology, stabilised with methanol.
Storage temp.: +15-25 °C

Danger H350-H341-H302-H317

P087.4	500 ml	plastic	~~10,25~~	7,60 €
P087.6	1 l	plastic	~~12,80~~	9,55 €
P087.5	2,5 l	plastic	~~17,10~~	12,75 €
P087.3	5 l	plastic	~~27,45~~	20,30 €
P087.1	10 l	plastic	~~50,45~~	37,50 €
P087.2	30 l	plastic	~~131,70~~	98,70 €

Reagents BioScience-Grade

For research and routine assays
in biochemistry & molecular biology

-22 %

Product	Purity	Art. No.	Pack Qty.	€	€
Agar-Agar, BioScience	BioScience-Grade, powdered	**6494.1**	250 g	~~59,05~~	**46,00**
		6494.2	500 g	~~100,55~~	**78,35**
		6494.3	1 kg	~~179,00~~	**139,55**
		6494.4	2,5 kg	~~396,70~~	**309,35**
Agar-Agar, BioScience, granulated TIP	BioScience-Grade, granulated **-30 %**	**1347.1**	250 g	~~70,85~~	**49,30**
		1347.2	500 g	~~125,25~~	**87,65**
		1347.3	1 kg	~~231,15~~	**161,75**
		1347.4	2,5 kg	~~510,65~~	**357,40**
Ampicillin sodium salt	≥97 %, BioScience-Grade, for molecular biology and biochemistry	**K029.1**	10 g	~~23,55~~	**18,15**
		K029.4	25 g	~~44,00~~	**34,25**
		K029.5	50 g	~~76,25~~	**59,45**
		K029.2	100 g	~~128,50~~	**100,15**
		K029.3	250 g	~~278,45~~	**217,00**
5-Bromo-4-chloro-3-indolyl phosphate p-toluidine salt	≥99 %, BioScience-Grade	**6368.1**	500 mg	~~36,45~~	**28,35**
		6368.2	1 g	~~70,45~~	**54,70**
		6368.3	5 g	~~267,70~~	**208,75**
Dimethyl sulphoxide (DMSO)	≥99,5 %, BioScience-Grade, for molecular biology	**A994.1**	100 ml	~~22,50~~	**17,50**
		A994.2	250 ml	~~35,40~~	**27,55**
Geneticin disulphate (G418)-solution	50 mg/ml, BioScience-Grade, sterile	**2039.1**	10 ml	~~65,05~~	**50,40**
		2039.2	20 ml	~~85,50~~	**66,50**
		2039.3	100 ml	~~321,45~~	**250,65**
IPTG	≥99 %, BioScience-Grade, dioxane free, animal free	**2316.1**	250 mg	~~21,00~~	**16,30**
		2316.2	1 g	~~45,05~~	**35,10**
		2316.3	5 g	~~128,50~~	**100,15**
		2316.4	25 g	~~429,50~~	**334,95**
		2316.5	100 g	~~977,20~~	**762,05**
Lysozyme	≥35000 FIP U/mg, BioScience-Grade, lyophilised	**8259.1**	1 g	~~27,85~~	**21,35**
		8259.2	10 g	~~170,95~~	**133,15**
		8259.3	25 g	~~321,45~~	**250,65**
Ribonuclease A	90 U/mg (Kunitz), BioScience-Grade, salt-free	**7156.1**	100 mg	~~75,80~~	**59,05**
		7156.2	500 mg	~~335,95~~	**262,00**
		7156.3	1 g	~~553,65~~	**431,80**
Water	BioScience Grade, nuclease-free, steam sterilised, DEPC treated water	**T143.1**	250 ml	~~26,80~~	**20,85**
		T143.2	500 ml	~~31,10~~	**24,15**
		T143.3	1 l	~~37,55~~	**29,20**
		T143.4	50 x 1 ml	~~94,50~~	**73,65**
	TIP	**T143.6**	50 x 1 ml in ampoules	~~107,40~~	**83,70**
		T143.5	5 x 20 ml	~~21,40~~	**16,65**
X-β-Gal	≥99 %, BioScience-Grade	**2315.1**	100 mg	~~21,40~~	**16,65**
		2315.2	500 mg	~~61,20~~	**47,65**
		2315.3	1 g	~~114,50~~	**89,10**
		2315.4	5 g	~~385,95~~	**300,85**

For safety information and additional data, see our current catalogue or at www.carlroth.com

Cell Biology · Transfection

-22 %

DOTAP

for transfection, CELLPURE®

$C_{43}H_{83}NO_8S$
M 774,21 g/mol
Storage temp.: +4 °C

Puritiy, QC: Controlled by TLC, NMR, standard transfection test with HeLa-, CV-1-cells. At least 99 %.
Stability: Minimum shelf-life 6 month at +4 °C.
Culture media: Suitable for whole and serum-free media.
Formulation: Transfection reagent DOTAP is an aqueous liposome formulation of N-[1-(2,3-**Dio**leoyloxy)]-N,N,N-**t**rimethyl**a**mmonium **p**ropane methyl sulphate with a concentration of 1 mg/ml.

Successfully tested with many cell lines.
Approx. 200 assays per ml in 24wells.

L787.1	0,5 ml	plastic	~~81,20~~	63,25 €
L787.2	1 ml	plastic	~~130,65~~	101,85 €
L787.3	5 x 1 ml	plastic	~~478,40~~	372,90 €

Roti®-Fect

for transfection, CELLPURE®

Reagent for liposoma-mediated transfection of eukaryotic cells.
Storage temp.: +4 °C

- Highly efficient reproduction of DNA in mammal cells
- Excellent reproducibility
- High and wide operating plateau
- No inhibition through serum
- Low cell toxicity
- Successful with different cell lines
- Excellent transfection results

Successfully tested with many primary cells and cell lines.
Approx. 400 assays per ml in 24wells. Dependent on the cell line used.

P001.1	0,2 ml	plastic	~~73,00~~	56,90 €
P001.2	0,5 ml	plastic	~~163,30~~	127,30 €
P001.3	1 ml	plastic	~~255,75~~	199,45 €
P001.4	5 x 1 ml	plastic	~~1.106,20~~	862,80 €

Roti®-Fect Plus

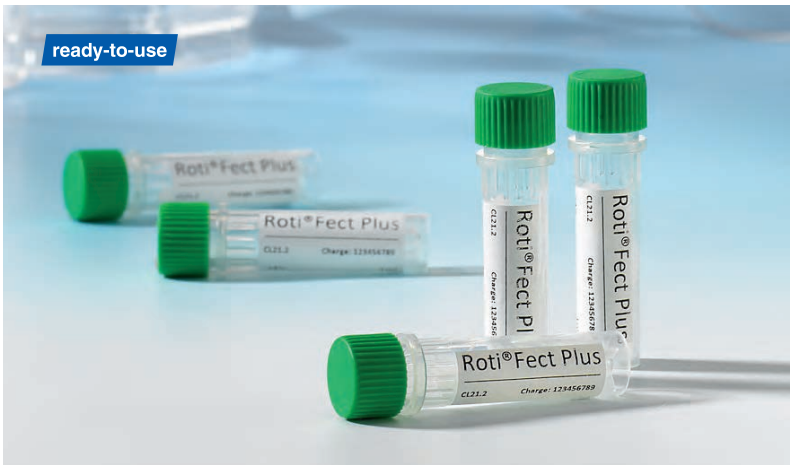
for transfection, CELLPURE®

Reagent for transfection of all eukaryotic cells in culture, particularly suited for hard-to-transfect cell lines.
Storage temp.: +4 °C

- Particularly low cell toxicity
- Superior transfection efficiency with all cell lines
- Especially recommended for hard-to-transfect cell lines
- Particularly suited for use with primary cells
- Excellent reproducibility
- No serum inhibition

Successfully tested with many primary cells and cell lines.
Approx. 500 assays per ml in 24wells. Dependent on the cell line used.

CL21.1	0,2 ml	plastic	~~95,60~~	74,50 €
CL21.2	1 ml	plastic	~~353,70~~	275,85 €



For additional information see our current catalogue or at www.carlroth.com

Histology · **Staining Solutions & -kits**

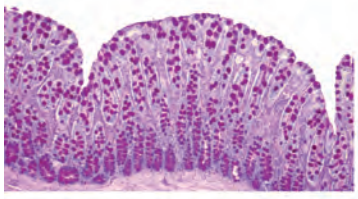
-20 %

Product	Purity	Application	Art. No.	Pack Qty.	€	€
Alcian blue 1 % in acetic acid 3 %	for microscopy	For selective staining of acidic mucins.	**1431.1**	500 ml	~~155,80~~	**124,55**
			1431.2	1 l	~~235,45~~	**188,00**
Eosin Y solution 0,5 % in water	for microscopy	For visualising cell structures during standard staining methods (H&E staining).	**X883.1**	500 ml	~~21,00~~	**16,75**
			X883.2	1 l	~~29,60~~	**23,65**
Giemsa stock solution **-30 %**	for microscopy	For differential staining of blood and bone marrow smears.	**T862.1**	500 ml	~~26,80~~	**18,70**
			T862.2	1 l	~~39,70~~	**27,70**
			T862.3	2,5 l	~~85,50~~	**59,80**
Hemalaun solution acid acc. to Mayer	for microscopy	For visualising nuclei.	**T865.1**	500 ml	~~26,80~~	**21,35**
			T865.2	1 l	~~44,00~~	**35,15**
			T865.3	2,5 l	~~79,45~~	**63,30**
Hematoxylin solution acc. to Harris	for microscopy	For visualising nuclei. Papanicolaou solution 1a	**X903.1**	500 ml	~~34,30~~	**27,40**
			X903.2	1 l	~~53,25~~	**42,55**
			X903.3	2,5 l	~~110,65~~	**88,45**
Nuclear fast red aluminium sulphate solution	for microscopy	For visualising nuclei e.g. during Elastica Staining.	**N069.1**	500 ml	~~33,25~~	**26,55**
LOEFFLER's methylene blue solution	for microscopy and cell counting	For visualising nuclei.	**AE64.1**	500 ml	~~25,30~~	**20,20**
			AE64.2	1 l	~~31,75~~	**25,35**
			AE64.3	2,5 l	~~65,50~~	**52,35**
May-Gruenwald's solution	for microscopy	For differential staining of blood smears and cytological specimens.	**T863.1**	500 ml	~~24,20~~	**19,35**
			T863.2	1 l	~~28,50~~	**22,45**
			T863.3	2,5 l	~~59,70~~	**47,70**
Resorcinol-Fuchsine-solution acc. to Weigert	for microscopy	For visualising elastic fibres.	**X877.1**	500 ml	~~33,90~~	**26,75**
			X877.2	1 l	~~57,95~~	**46,10**
			X877.3	2,5 l	~~116,65~~	**93,30**
Trypan blue solution 0,4 %	for cell culture and microscopy	For detection of dead cells during vital staining.	**1680.1**	100 ml	~~32,15~~	**25,65**

For safety information and additional data, see our current catalogue or at www.carlroth.com

Fast staining kits for rapid oversight staining. Special kits for differentiated visualising of tissues and cells.

- All required staining reagents included
- Ready-made solutions
- With detailed instructions for use



Gram staining kit

for microscopy

Kit for differentiation of gram-positive and gram-negative bacteria, incl. instructions for use.

Storage temp.: +20 °C

Danger H225-H314-H336-H341-H373-EUH066

This classical staining method allows a quick differentiation of gram-positive and gram-negative bacteria. Subsequently a specific treatment with antibiotics is possible.

Formulation:

Carbol gentianaviolet solution (Art. No. CN00). ..... 500 ml
Iodine-potassium iodide solution acc. to Lugol (Art. No. N052). ..... 500 ml
Gram's decolourising solution (Art. No. CN02). ..... 500 ml
Carbol fuchsine solution (Art. No. A130). ..... 500 ml

HP02.1	1 kit	glass	~~90,85~~	**72,65 €**

PAS staining kit

-30 %

for microscopy

Staining kit for Periodic Acid Schiff (PAS) staining, incl. instructions for use.

Storage temp.: +4 °C

Danger H290-H302-H315-H319-H350

Periodic Acid Schiff staining is generally used for detecting carbohydrates in tissue.

Formulation:

Periodic acid solution 1 % (Art. No. HP00). ..... 500 ml
Schiff´s reagent (Art. No. X900). ..... 500 ml
Hemalum solution acid acc. to Mayer (Art. No. T865). ..... 500 ml

HP01.1	1 kit	glass	~~85,90~~	**60,05 €**

Masson-Goldner's trichrome staining kit

for microscopy

Staining kit for visualising connective tissue (Masson-Goldner trichrome staining), incl. instructions for use.

Storage temp.: +20 °C

Danger H225-H290-H315-H317-H318-H336

Formulation:

Hematoxylin solution A acc. to Weigert (Art. No. X906). ..... 500 ml
Hematoxylin solution B acc. to Weigert (Art. No. X907). ..... 500 ml
Goldner's stain I (Art. No. 3469). ..... 500 ml
Goldner's stain II (Art. No. 3470). ..... 500 ml
Goldner's stain III (Art. No. 3473). ..... 500 ml

3459.1	1 kit	glass	~~162,25~~	**129,75 €**

Albumin-/BSA-Solutions

NEW

Storage temp.: +4 °C
Transport temp.: cooled

ready-to-use S

This albumin is made of fresh bovine plasma, using an extensive heat-shock/diafiltration method.

-20 %

Albumin solution 20 %

20 %, sterile, for biochemistry and cell biology

Albumin fraction V. Wide range of applications, e.g. as protein standard or blocking reagent.

9400.1	20 ml	plastic	~~10,75~~	**8,60 €**
9400.2	100 ml	plastic	~~43,00~~	**34,40 €**
9400.3	500 ml	plastic	~~177,40~~	**141,90 €**

Albumin solution 30 %

30 %, sterile, for biochemistry and cell biology

Albumin fraction V. Wide range of applications, e.g. as protein standard or blocking reagent.

9401.1	20 ml	plastic	~~15,05~~	**11,70 €**
9401.2	100 ml	plastic	~~60,20~~	**48,15 €**
9401.3	500 ml	plastic	~~241,90~~	**193,50 €**

Albumin solution 30 %, with azide, US-Origin

30 %, sterile, with azide, US-Origin, for biochemistry

Suitable as blocking or stabilising reagent in all general assays. Recommended if BSA with US-Origin is required.

9414.1	100 ml	plastic	~~98,90~~	**79,10 €**
9414.2	500 ml	plastic	~~344,00~~	**275,20 €**

Recommended Application of Albumins

Albumin	Art. No.	Recommended Application
Albumin solution 20 %	9400	Wide range of applications, e.g. as protein standard or blocking reagent.
Albumin solution 30 %	9401	Wide range of applications, e.g. as protein standard or blocking reagent.
Albumin solution 30 %, with azide, US-Origin	9414	Suitable as blocking or stabilising reagent in all general assays. Recommended if BSA with US-Origin is required.

Protein Quantitation

-25 %

Ready-made solutions for photometric detection and quantitation of soluble proteins. Reproducible, fast and low-priced. For application in cuvettes or microtiter plates (automatable).

Roti®-Quant – Standard assay acc. to Bradford, reliable and very easy to apply

Roti®-Nanoquant – Highly sensitive Bradford assay, for particularly low protein amounts

Roti®-Quant universal – PCA assay with high tolerance against detergents etc.

Product	Method of Analysis	Photometric Measurement	Linear Measurement Range	Yield*	Art. No.	Pack Qty	€	€
Roti®-Quant	Bradford	595 nm	2 to 100 µg protein	200/900	**K015.2**	50 ml	~~14,95~~	**11,15**
				800/3600	**K015.3**	200 ml	~~48,95~~	**36,40**
				2000/9000	**K015.1**	500 ml	~~96,65~~	**72,45**
Roti®-Nanoquant	Bradford	590 nm and 450 nm	0,2 to 25 µg protein	200/900	**K880.2**	50 ml	~~15,60~~	**11,65**
				800/3600	**K880.3**	200 ml	~~46,80~~	**35,05**
				2000/9000	**K880.1**	500 ml	~~93,45~~	**69,75**
Roti®-Quant universal	Biuret reaction/PCA (equals BCA)	492 nm or 503 nm	0,5 to 200 µg protein	200/2000	**0120.2**	1 kit	~~89,80~~	**67,30**
				500/5000	**0120.1**	1 kit	~~188,15~~	**141,05**

* Measures in 1 ml cuvettes / in microtiter plates

For safety information and additional data, see our current catalogue or at www.carlroth.com

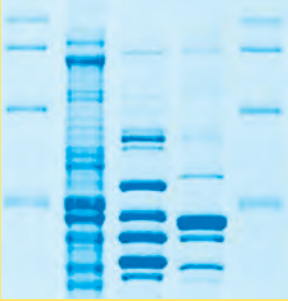
Electrophoresis · **PAGE** -20 %

Roti®-Blue quick

ready-to-use -30 %

Solution for rapid, sensitive staining of protein gels.

- **First bands are visible within 3 mins.**
- No background - no destaining necessary
- Very simple application without heating, methanol, or acetic acid



4829.1	250 ml	glass	~~67,20~~	47,00 €
4829.2	1 l	glass	~~228,45~~	159,90 €

Roti®-Blue

-30 %

5x concentrated

Colloidal Coomassie® staining solution for protein gels.

Warning H290

- Most simple application
- No destaining necessary
- 5 x more sensitive than Coomassie® R250

Particularly well suited for staining prior to MS-analyses (e.g. MALDI) and prior to gel elution.

A152.2	250 ml	plastic	~~32,15~~	22,45 €
A152.1	1 l	plastic	~~93,00~~	65,05 €

For **technical data** see our current catalogue or at www.carlroth.com

Roti®fair SDS-PAGE

for 1000 ml/pouch, for electrophoresis

SDS-PAGE powder (pouch), Tris-glycine-SDS buffer

Warning H315-H319-H335

Formulation:

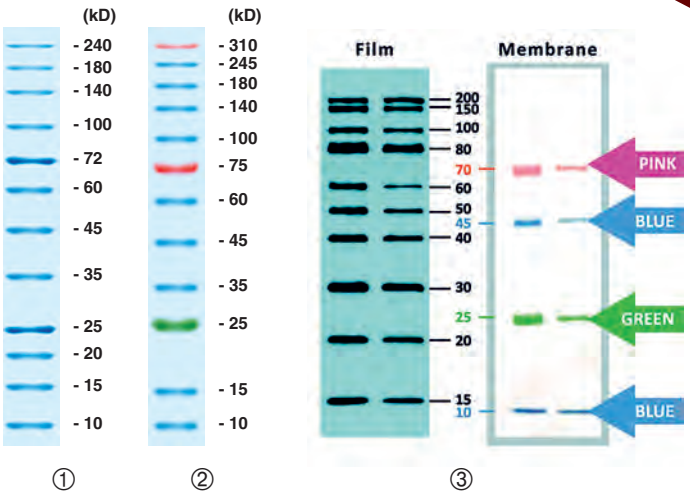
Prepared 1x SDS-PAGE solution contains: 25 mM Tris, 0,192 M glycine, 0,1 % SDS, pH-value 8,3 ±0,05, when prepared in deionized or distilled water.

for 1000 ml/pouch

1249.1	10 pouches	box	~~91,95~~	73,50 €

for 5000 ml/pouch

1250.1	10 pouches	box	~~195,15~~	155,75 €



Roti®-Mark ALL BLUE ①

ready-to-use

Protein marker, prestained

Size range: 10-240 kD
Number of protein bands: 12
Number of lanes/ml: approx. 200 (mini gels)

Storage temp.: -20 °C • Transport temp.: room temp.

2242.1	250 µl	plastic	~~91,30~~	72,95 €
2242.2	2 x 250 µl	plastic	~~166,10~~	132,85 €

Roti®-Mark TRICOLOR XTRA ②

ready-to-use

Protein marker, prestained

Size range: 10-310 kD
Number of protein bands: 12
Number of lanes/ml: approx. 200 (mini gels)

Storage temp.: -20 °C • Transport temp.: room temp.

2244.1	250 µl	plastic	~~103,10~~	82,45 €
2244.2	2 x 250 µl	plastic	~~191,25~~	152,95 €

Roti®-Mark WESTERN PLUS ③

ready-to-use

Protein marker, prestained

Size range: 15-200 kD
Number of protein bands: 14
· 10 IgG binding
· 4 prestained (tricolour)
Number of lanes/ml: approx. 200 (mini gels)

Storage temp.: -20 °C • Transport temp.: room temp.

The Roti®-Mark WESTERN PLUS protein marker covers a wide range of molecular weights from 15 to 200 kD. It consists of 10 IgG binding proteins with two in their mass enhanced reference bands (30 kD and 80 kD). For the most common type of primary antibodies are IgG type antibodies the Roti®-Mark WESTERN PLUS marker can be used in almost any situation of Western Blot. Appropriate detection methods are fluorescence, chemoluminescence, colour or other systems.

2245.1	250 µl	plastic	~~195,55~~	156,40 €
2245.2	2 x 250 µl	plastic	~~370,90~~	296,70 €

Rotiphorese® 10x SDS-PAGE

ready-to-use

10x concentrated SDS-PAGE running buffer, for electrophoresis.

Tris-glycine-SDS buffer

Solution consisting of 0,25 M Tris, 1,92 M glycine and 1 % (w/v) SDS in distilled, deionised water for protein analysis.
Acc. to Laemmli (1970), *Nature* 227:680.

3060.1	1 l	glass	~~37,55~~	29,95 €
3060.3	2,5 l	glass	~~69,35~~	55,45 €
3060.2	5 l	plastic	~~98,80~~	79,00 €

Hygiene Monitoring:
Clean? ... Sure!

Orion Clean Card® PRO – Detection of Proteins

Product	Pack Qty.	Art. No.	€
Orion Clean Card® PRO Starter Kit	The starter kit contains: • 25 tests • Small plastic spray bottle • Picture card for analysis • Operating instructions	**0071.1**	**99,95**
Orion Clean Card® PRO Pack	The refill pack contains: • 50 tests • Picture card for analysis • Operating instructions	**0072.1**	**137,60**
Orion Clean Card® PRO Testprotokoll	DIN A4 writing pad with 50 forms in German version for documentation of test results	**0076.1**	**9,10**

For safety information and additional data, see our current catalogue or at www.carlroth.com

ready-to-use

Lumitester PD 30 – Detection of ATP/AMP

-25 %

by Kikkoman

Liquids and surfaces can be quickly and easily tested for contamination by foodstuffs and microorganisms using the Lumitester PD30 and the LuciPac® Pen sampling pen.

Art. No.	Pack Qty.	€	€
NC57.1	1	~~1.654,45~~	**1.240,80**

For further information on this **Lumitester** see our current catalogue or at www.carlroth.com

... for use with

-30 %

LuciPac® Pen ①

For reliable monitoring of dry and wet surfaces in the manufacturing sector, in the foodstuffs and animal feed sector, in patients- and health care, in gastronomy and trade, in training and in many other areas.

Storage temp.: +4 °C

NC59.1	20 pieces	Aluminium bag	~~99,90~~	**69,75 €**
NC59.2	100 pieces	Aluminium bag	~~427,35~~	**299,10 €**

LuciPac® Pen Aqua ②

For reliable monitoring of liquids, e.g. contamination control of water and wastewater. The sampling comb ensures precise sampling of 150 µl.

Storage temp.: +4 °C

NC58.1	20 pieces	Aluminium bag	~~99,90~~	**69,75 €**
NC58.2	100 pieces	Aluminium bag	~~427,35~~	**299,10 €**