



Life Science TOP Offers



Properties:

- Native triple-helix structure
- Intact telopeptides (telocollagen)
- Full biological activity
- High biocompatibility
- Endotoxin-free
- Very good solubility



Collagen type I, native

TSE-/BSE-free

CELLPURE® Ultra Quality, bovine, acid soluble

Soluble, molecular collagen with intact native triple helix as well as N- and C-terminal telopeptides (telocollagen).

This is acid-soluble, native Collagen Type I (Acid Soluble Collagen, ASC) derived from bovine hides sourced from BSE-safe countries in accordance with ISO 22442. Due to the gentle manufacturing process, the collagen is present as native, molecular **telocollagen** with preserved triple helix structure and intact N- and C-terminal telopeptides.

The natural, intact structure ensures full biological activity of the collagen, including integrin-mediated cell adhesion as well as the ability to self-assemble into fibrillar collagen suprastructures.

These biological properties make telocollagen an optimal biomaterial and an important foundation for tissue repair, regeneration, and biomedical research. Furthermore, it serves as a versatile building block for materials science.

Collagen Type I is provided as a flake-like substrate (> 50% collagen, < 50% water) and is characterized by good solubility in slightly acidic as well as aqueous solutions, enabling simple and reproducible handling. The controlled manufacturing process ensures particularly high purity, characterized by very low endotoxin and total microbial count (TMC) levels.

Soluble in 5 mM acetic acid solution or 10 mM hydrochloric acid solution at a collagen concentration of up to 2% (w/v).

Storage temperature: +5 to +25 °C

Transport temperature: ambient temp.

Not a medical device / Not an IVD product

Art. No.	Pack Qty.	Pack.	€	€
23M7.1	1 g	plastic	124,70	106,00
23M7.2	10 g	plastic	965,95	820,55

Application:

- 3D cell culture
- Surface coating
- In vitro fibrillogenesis
- Tissue engineering
- Manufacture of bioinks
- Regenerative medicine

-15%

Collagen type I, solution



Storage temperature: +2 to +8 °C

Transport temperature: cooled

Not a medical device / Not an IVD product

CELLPURE® 0,1% (w/v) in HCl, bovine, sterile-filtered

Art. No.	Pack Qty.	Pack.	€	€
23M8.1	25 ml	plastic	358,00	304,25
23M8.2	100 ml	plastic	857,85	729,15

CELLPURE® 0,4% (w/v) in HCl, bovine, sterile-filtered

Art. No.	Pack Qty.	Pack.	€	€
23M9.1	25 ml	plastic	376,25	319,80
23M9.2	100 ml	plastic	933,10	793,10

CELLPURE® 0,5% (w/v) in HCl, bovine, sterile-filtered

Art. No.	Pack Qty.	Pack.	€	€
23MA.1	25 ml	plastic	408,50	347,20
23MA.2	100 ml	plastic	1056,95	900,95

Valid from 1 June to 31 July 2026

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

Phone: +49 721 / 56 06 510 · Fax: +49 721 / 56 06 111 · E-Mail: info@carlroth.com · Internet: www.carlroth.com
For ordering and information about prices and delivery in your country please contact us or your local distributor.
Contact: www.carlroth.com/com/en/Auslandsservice · www.carlroth.com/com/en/Auslandsvertretungen
All supplies and deliveries are subject to the terms and conditions of sale and delivery of Carl Roth GmbH + Co. KG, Karlsruhe.

Cytogenetics

-20%

Complete media



S

ready-to-use

Area of application

- Karyotyping
- Fluorescence in situ Hybridization (FISH)
- Other cytogenetic analyses

- Sterile and ready-to-use
- All products in CELLPURE® quality – tested for endotoxins

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
ROTI®Cell Amniotic Fluid Medium	sterile, with FBS, glutamine, gentamicin	Complete medium for the cultivation of amnion and chorion cells for cytogenetic analysis.	3EX9.1	100 ml	55,40	44,25
ROTI®Cell Bone Marrow Medium	sterile, with FBS, glutamine, gentamicin	Complete medium for the cultivation of bone marrow cells for cytogenetic analysis	3EX9.2	500 ml	209,65	167,70
ROTI®Cell Lymphocyte Medium	sterile, with FBS, glutamine, PHA-M, Pen/Strep	Complete medium for the cultivation of peripheral blood lymphocytes for cytogenetic analysis.	3EXA.1	100 ml	120,95	96,75
			3EX8.1	100 ml	55,40	44,25

*Not medical devices / Not IVD products.
For safety information and additional data, see www.carlroth.com

Solutions



S ready-to-use

ROTI®Cell Colcemid solution

CELLPURE® 10 µg/ml in DPBS, sterile

For cytogenetics

Colcemid solution is commonly used in chromosome analysis for the karyotyping of lymphocytes and bone marrow cells, as well as for the chromosome analysis of amniotic fluid cells. It inactivates the formation of spindle fibers, thereby arresting cells in metaphase and allowing the chromosomes to be separated for further investigation.

Colcemid (N-Deacetyl-N-methylcolchicine) is related to colchicine but is less toxic.

Recommended working concentration: 0.1 µg/ml.

Storage temperature: +2 to +8 °C

Transport temperature: ambient temp.

Not a medical device / Not an IVD product

Art. No.	Pack Qty.	Pack.	€	€
3AA0.1	10 ml	plastic	21,00	16,75



S

ready-to-use

ROTI®Cell Phytohemagglutinin (PHA-M)

CELLPURE® sterile

Stimulation of lymphocyte cell proliferation

Recommended working concentration: 30 ml/L

Store protected from light at ≤ -15 °C. After opening, stable for one month in the refrigerator.

Storage temperature: -20 °C

Transport temperature: frozen

Not a medical device / Not an IVD product

Art. No.	Pack Qty.	Pack.	€	€
23G0.1	10 ml	plastic	67,75	54,15



S ready-to-use

ROTI®Cell Potassium chloride solution (KCl)

CELLPURE® 0.075 M, sterile

For cytogenetics

Potassium chloride solution is a hypotonic solution used in cytogenetics for the expansion and lysis of cells. Its hypotonic properties enable optimal distribution of metaphase chromosomes during karyotyping. It is widely used, especially in the analysis and classification of chromosomes as well as in fluorescence in situ hybridization.

Application:

- Karyotyping
- Chromosome extraction
- Fluorescence in situ hybridization (FISH)
- Cell lysis

Storage temperature: +2 to +25 °C

Transport temperature: ambient temp.

Not a medical device / Not an IVD product

Art. No.	Pack Qty.	Pack.	€	€
3A8L.1	100 ml	plastic	21,00	16,75



Cell Analysis

-20%



ROTITEST®Vital S ready-to-use

ROTITEST® BioAnalysis Grade, sterile, ready-to-use

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

Mechanism

Sensitivity of the tetrazolium salt used is higher than that known for standard reagents such as MTT, XTT, MTS, or WST-1. Results were shown to be of highly stringent correlation with [³H]-thymidine incorporation assays, therefore representing viability as well as proliferation status of the cells (Tominaga *et al.*, *Anal. Commun.* 1999 (36) 47-50). In all living cells, NADH and NADPH are formed by the respiratory chain. ROTITEST®vital is based on the (colourless) WST-8, which functions as acceptor for the NADH/NADPH dehydrogenase while being reduced to (coloured) formazane during the process.

Rapid and simple test system for non-radioactive quantitation of proliferating cells. Also well suitable for cytotoxicity assays.

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 100 measurements.

Storage temperature: +4 °C

Art. No.	Packaging	Pack Qty.	Pack.	€	€
0069.3	1 x 1 ml	1 ml	plastic	87,65	70,05
0069.1	1 x 5 ml	5 ml	plastic	233,85	187,05
0069.2	4 x 5 ml	20 ml	plastic	704,15	563,30

ROTITEST®Annexin V ready-to-use

ROTITEST® BioAnalysis Grade, ready-to-use

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

Mechanism

During the first stages of apoptosis, phosphatidylserine (PS) is translocated from the inner membran layer to the outer surface of the cell. The ROTITEST®Annexin V Kit uses the Ca²⁺ dependent binding efficiency of Annexin V to PS in order to label cells with damaged cell membranes. Additionally, propidium iodide is used to counter stain nuclei of cells with opened membranes, hence those which undergo necrotic degradation.

Thus, cells with yellow-green membrane staining only can be identified as apoptotic, while double stained cells (with yellow-green membranes plus orange-red nuclei) are classified as necrotic. Analysis is performed via flow cytometry or fluorescence microscopy.

- 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

Each package contains simple-to-follow instructions-for-use.

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 10⁵ cells each.

Storage temperature: +4 °C

Art. No.	Packaging	Pack Qty.	Pack.	€	€
7735.1	approx. 50 assays	1 kit	cardboard	278,45	222,70

► EdU Click Proliferationskits von baseclick finden Sie unter www.carlroth.com

Antibiotic solutions for cell culture S ready-to-use

Antibiotic solutions specifically developed for use in cell culture. They prevent the growth of unwanted microorganisms, such as bacteria and fungi, and ensure the quality and reproducibility of experiments.

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Gentamycin sulphate solution	50 mg/ml, sterile	Aminoglycoside antibiotic that inhibits the proliferation of susceptible bacteria in cell cultures.	HN09.1	20 ml	131,70	105,35
			HN09.2	100 ml	407,45	325,90
ROTI®Cell Amphotericin B	100x, sterile	Fungicidal solution that inhibits the growth of fungi and yeasts in cell cultures.	22W6.1	100 ml	37,55	29,95
ROTI®Cell Antibiotic-Antimycotic	100x, sterile	Broad-spectrum solution that inhibits the growth of unwanted bacteria and fungi in cell cultures.	3A8X.1	100 ml	44,00	35,15
ROTI®Cell Myco-Free	50x conc., sterile, ready-to-use	Special solution for the elimination of mycoplasmas in cell cultures.	9830.1	100 ml	299,95	239,90
ROTI®Cell Penicillin-Streptomycin (Pen/Strep)	100x, sterile	Antibiotic solution that specifically prevents the growth of gram-positive and gram-negative bacteria in cell cultures.	3A7X.1	100 ml	19,90	15,90
	100x, sterile, with L-Glutamine		3A7Y.1	100 ml	46,15	32,25

For safety information and additional data, see www.carlroth.com

Protein Quantitation

-20%

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.

ready-to-use



Product name	Detection	Linear measuring range	Photometric measurement	Packaging	Art. No.	Pack Qty.	€	€
ROTI®Nanoquant	Bradford	0,2 to 25 µg protein	590 nm and 450 nm	200 assays (cuvettes)	K880.2	50 ml	21,00	16,75
				800 assays (cuvettes)	K880.3	200 ml	62,25	49,75
				2000 assays (cuvettes)	K880.1	500 ml	123,65	98,90
ROTI®Quant -25%	Bradford	2 to 100 µg protein	595 nm	200 assays (cuvettes)	K015.2	50 ml	19,90	14,85
				800 assays (cuvettes)	K015.3	200 ml	65,50	49,05
				2000 assays (cuvettes)	K015.1	500 ml	131,70	98,70
ROTI®Quant universal	Biuret reaction/PCA (equals BCA)	0,5 to 200 µg protein	492 nm or 503 nm	500 assays (cuvettes)	0120.1	1 kit	252,65	202,10
				200 assays (cuvettes)	0120.2	1 kit	123,65	98,90

For safety information and additional data, see www.carlroth.com

Albumin/BSA Solutions



ready-to-use

For Albumin purification an extensive heat-shock/diafiltration method is used.



Albumin solution 30 %

30 % w/v, sterile, for biochemistry and cell biology

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

Storage temperature: -20 °C

Transport temperature: cooled

Art. No.	Pack Qty.	Pack.	€	€
9401.1	20 ml	plastic	56,45	45,15
9401.2	100 ml	plastic	134,40	107,50
9401.3	500 ml	plastic	521,40	417,10

Albumin solution 20 %

20 % w/v, sterile, for biochemistry and cell biology

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

Storage temperature: -20 °C

Transport temperature: cooled

Art. No.	Pack Qty.	Pack.	€	€
9400.1	20 ml	plastic	53,65	42,85
9400.2	100 ml	plastic	117,20	93,70
9400.3	500 ml	plastic	471,95	377,50

Albumin solution 30 %, with azide

30 % w/v, sterile, with azide, for biochemistry

Suitable as blocking or stabilising reagent in all general assays.

Storage temperature: +4 °C

Transport temperature: cooled

Art. No.	Pack Qty.	Pack.	€	€
9414.1	100 ml	plastic	231,15	184,90
9414.2	500 ml	plastic	854,65	683,70



DNA/RNA Isolation

-20%

ROTI®Phenol solutions for DNA and RNA extraction

- Reduce exposure to toxic chemicals
- Prepared from phenol of highest purity
- Packed under argon for maximum stability
- Successfully tried and tested in many research laboratories

ready-to-use

ROTI®Phenol

ready-to-use, for the extraction of nucleic acids

Redistilled, in TE buffer equilibrated phenol, pH 7,5-8,0.

Phenol solutions for nucleic acid isolation must be buffered and adjusted to the correct pH value prior to use. ROTI®Phenol is a redistilled, in TE buffer equilibrated readytouse phenol.

ROTI®Phenol has been successfully tried and tested for isolating nucleic acids in many research laboratories. This quality product for molecular biology replaces the time consuming preparation of phenol and subsequently any exposure to toxic vapours.

Draw solution from lower phase. Do not shake before use!

Art. No.	Pack Qty.	Pack.	€	€
0038.1	100 ml	glass	33,90	27,05
0038.2	250 ml	glass	68,70	54,90
0038.3	500 ml	glass	107,00	85,55

ready-to-use

ROTI®Aqua-Phenol

ready-to-use, for RNA extraction

Redistilled, in water saturated phenol, pH 4,5-5.

ROTI®Aqua Phenol is perfectly suited for RNA isolation and other procedures, requiring a low phenol pH value. The low pH results in interphase enrichment of the DNA, reducing DNA contamination in the RNA eluate.

Also ideal for self-adjustment of the pH-value. If required, buffer solution (e.g. TE buffer) may be added directly into the bottle, as ROTI®Aqua-Phenol comes in the following bottle sizes:

A980.2: 100 ml in a 250 ml bottle

A980.1: 250 ml in a 500 ml bottle

A980.3: 500 ml in a 1 l bottle

Art. No.	Pack Qty.	Pack.	€	€
A980.2	100 ml	glass	28,50	22,75
A980.1	250 ml	glass	55,80	44,60
A980.3	500 ml	glass	87,65	70,05



ready-to-use

ROTI®Phenol/Chloroform/ Isoamyl alcohol

ready-to-use, 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.

ROTI®Phenol/Chloroform/Isoamyl alcohol is re-distilled phenol, equilibrated in TE buffer, premixed with high purity chloroform and isoamyl alcohol.

ROTI®Phenol/Chloroform/Isoamyl alcohol has proven itself in many research laboratories for the isolation of nucleic acids and is an ideal complement to pure ROTI®Phenol.

Art. No.	Pack Qty.	Pack.	€	€
A156.3	100 ml	glass	48,95	39,10
A156.1	250 ml	glass	96,65	77,25
A156.2	500 ml	glass	166,65	133,30

ready-to-use

ROTI®Aqua-P/C/I

ready-to-use, for RNA extraction

Redistilled, in water saturated phenol, chloroform and isoamyl alcohol at a ratio of 25:24:1, pH 4,5-5.

ROTI®Aqua-P/C/I is the optimal choice for RNA isolation and other procedures where a low phenol pH value is desired.

The low pH results in interphase enrichment of the DNA, reducing DNA contamination in the RNA eluate.

Art. No.	Pack Qty.	Pack.	€	€
X985.3	100 ml	glass	37,55	29,95
X985.1	250 ml	glass	66,55	53,20
X985.2	500 ml	glass	103,10	82,45

ready-to-use

ROTI®C/I

ready-to-use, for the extraction of nucleic acids

Chloroform/Isoamyl alcohol at a ratio of 24:1.

Mixture of chloroform and isoamyl alcohol of highest purity. Ideal for extraction of DNA/RNA in combination with ROTI®Phenol, especially for the purification of nucleic acid containing solutions from residual phenol.

Art. No.	Pack Qty.	Pack.	€	€
X984.3	100 ml	glass	13,90	11,05
X984.1	250 ml	glass	23,15	18,45
X984.2	500 ml	glass	36,05	28,80



General Reagents for Molecular Biology

-20%

S ready-to-use DNase-free RNase-free Sample available

Water**BioScience Grade, DEPC treated, sterile, nuclease-free, autoclaved**

For molecular biology.

Distilled water mixed with DEPC and steam sterilised. By DEPC Histidin residues in proteins are modified to *N*-carboxy histidin, resulting in inhibition of RNases and DNases. DEPC decomposes to CO₂ and ethanol during sterilisation.

Also available as 50 reaction tubes or as 50 glass ampoules with 1 ml each nuclease free water in a tube rack.

To prevent loss of volume in the 1 ml tubes (T143.4), we recommend freezing the product at -20°C after receipt.

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

Art. No.	Packaging	Pack Qty.	Pack.	€	€
T143.4	50 x 1 ml in tubes	50 ml	plastic	134,40	107,50
T143.6	50 x 1 ml in glass breaker ampoules	50 ml	glass ampoule	150,50	120,40
T143.5	5 x 20 ml	100 ml	glass	36,05	28,80
T143.1	1 x 250 ml	250 ml	glass	33,90	27,05
T143.2	1 x 500 ml	500 ml	glass	42,90	34,25
T143.3	1 x 1 l	1 l	glass	59,05	47,15

S ready-to-use DNA-free DNase-free RNase-free

Protease-free

PCR water**Ultrapure water (Type I), sterile, nuclease-free, free of DNA and RNA**

Ultrapure water, free of nucleases, DNA and RNA for use in sensitive molecular biological applications.

PCR water is ultrapure water that has been proven to be free of nucleases, DNA and RNA. Ultrapure water is specially purified water whose purity exceeds that of demineralised and distilled water. The difference to the quality of distilled or demineralised water can be seen in the electrical conductivity of ultrapure water of $\leq 0,075 \mu\text{S}/\text{cm}$. Since the water molecule is an ampholyte that can react with itself, even ultrapure water has a low electrical conductivity.

PCR water is suitable for use in sensitive molecular biology applications such as PCR, RT-PCR, cDNA synthesis or sequencing.

Each batch is tested by PCR to exclude contamination by DNA and nucleases.

Storage temperature: +15 to +25 °C

Transport temperature: ambient temp.

Art. No.	Packaging	Pack Qty.	Pack.	€	€
1HPE.1	10 x 1,5 ml in tubes	15 ml	plastic	103,10	82,45
1HPE.2	20 x 1,5 ml in tubes	30 ml	plastic	198,90	159,10
1HPE.4	1 x 60 ml	60 ml	plastic	220,40	176,30
1HPE.3	50 x 1,5 ml in tubes	75 ml	plastic	451,50	361,20
1HPE.5	1 x 125 ml	125 ml	plastic	435,40	348,30

DNase-free RNase-free

-30%**Dimethyl sulphoxide (DMSO)****≥99,5 %, BioScience Grade, nuclease free**

Recommended for PCR, sequencing, hybridisation and microbiological cell culture.

Note: Product may crystallise. It can be liquefied by heating in a water bath to max. 40 °C.

Art. No.	Pack Qty.	Pack.	€	€
A994.1	100 ml	glass	30,65	21,45
A994.2	250 ml	glass	53,25	37,25

S ready-to-use

ROTI®Stock 100x TE**100x conc., BioScience Grade, ready-to-use, steam sterilized**

For molecular biology.

100x stock solution Tris/EDTA for DNA storage.

Common solution and storage buffer for DNA.

The included EDTA inhibits traces of DNases and thus protects your DNA from degradation. However, many other enzymes such as ligases will also be inhibited through the complexation of bivalent cations, therefore TE buffer should not be used as a solution buffer for cloning.

With original seal.

1.0 M Tris (pH 8.0), 100 mM EDTA (pH 8.0) in deionised water, steam sterilised.

Art. No.	Pack Qty.	Pack.	€	€
1052.1	1 l	glass	104,85	83,85

DNase-free RNase-free

-25%**Formamide, deionized****≥99,5 %, BioScience Grade, RNase/DNAse free**

After receiving the formamide, mix well and aliquot. Store aliquots at -20 °C.

Storage temperature: -20 °C

Transport temperature: ambient temp.

Art. No.	Pack Qty.	Pack.	€	€
P040.1	250 ml	plastic	64,00	47,95
P040.2	500 ml	plastic	97,75	73,25

DNase-free RNase-free Protease-free

2-Propanol**≥99,5 %, for molecular biology**

Art. No.	Pack Qty.	Pack.	€	€
1HPK.1	1 l	glass	65,50	52,35
1HPK.2	2.5 l	glass	155,90	124,70
1HPK.3	5 l	plastic	289,20	231,30





Horizontal Electrophoresis

-20%

Complete electrophoresis system ROTIPHORESE® PROfessional runVIEW

All-in-one system for real-time electrophoresis: unit, power supply and illuminator combined

Delivery incl. 1 ROTIPHORESE®PROfessional runVIEW base (base station with integrated blue light and power supply, also available individually under order no. 4850.1), 1 horizontal gel chamber ROTIPHORESE®PROfessional III (also available individually under order no. 2850.1), 1 special lid for blue light (also available individually under order no. 3077. 1) with integrated spectral emission filter for green and red fluorescence and electrophoresis cables (4 mm plug), 1 UV-transparent gel carrier tray (15 x 15 cm) with 2 gel casting barriers, 8 double-sided combs, compatible with multichannel pipettes: 2 x 4/16 samples and 4 x 20/28 samples (1 mm each), 1 x 4/16 samples and 1 x 20/28 samples (3 mm each).

Type	Art. No.	Pack Qty.	€	€
PROfessional runVIEW complete system	4849.1	1 unit(s)	2394,05	1.915,20

DNase-free

RNase-free

Agarose Standard

ROTI®Garose for DNA/RNA electrophoresis

General agarose for routine gels, student's courses, and standard analyses (1 kb–20 kb).

Art. No.	Pack Qty.	Pack.	€	€
3810.1	10 g	plastic	24,20	19,35
3810.2	100 g	plastic	95,60	76,40
3810.5	250 g	plastic	192,45	153,90
3810.3	500 g	plastic	370,90	296,70
3810.4	1 kg	plastic	618,15	494,50



ready-to-use

ROTIPHORESE®50x TAE Buffer

-25%

ROTIPHORESE® 50x conc.

Running buffer in DNA agarose gel electrophoresis.

ROTIPHORESE®50x TAE Buffer contains 2 M Tris, 1 M acetic acid and 50 mM EDTA in distilled, deionised water; pH 8,5.

Art. No.	Packaging	Pack Qty.	Pack.	€	€
CL86.1	1 x 1 l	1 l	glass	81,60	61,15
CL86.3	1 x 2.5 l	2.5 l	glass	149,45	112,05
CL86.2	1 x 5 l	5 l	plastic	291,15	173,30

ready-to-use

DNase-free

ROTI®Load DNA (with glycerol)

6x conc., DNase-free

DNA-gel loading buffer for DNA gel electrophoresis of routine gels.

Each batch is functionally tested for its suitability in electrophoresis and for DNase-freeness.

Art. No.	Packaging	Pack Qty.	Pack.	€	€
X904.1	5 x 1,8 ml	9 ml	plastic	53,65	42,85

DNA-Ladder combi

lyophilised, not prestained

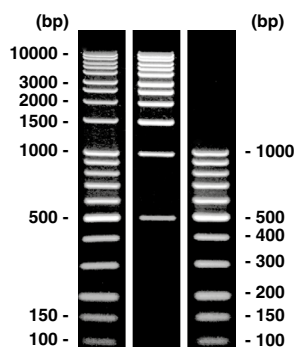
Size range: 100-10000 bp

Number of fragments: 20

Number of lanes per 40 µg + 100 µg: approx. 200 (mini gels)

Versatile DNA-marker combination for gels and DNA-fragments of different size.

The bands below 500 bp were enhanced aligning their intensity in the gel to the large fragments. The 500 bp band was specially enhanced for easy orientation in the gel.



Art. No.	Packaging	Pack Qty.	Pack.	€	€
CL22.1	20 µg+50 µg	1 set	plastic	155,90	124,70



ready-to-use

DNase-free

RNase-free



ROTI®GelStain Advanced

20 000x conc., ready-to-use

-25%

For non-toxic fluorescence staining of nucleic acids in agarose and polyacrylamide gels. Green fluorescence. Direct application to the agarose solution and the running buffer.

ROTI®GelStain Advanced is a versatile staining reagent for the detection of all nucleic acids in agarose and polyacrylamide gels.

Properties:

- Simple differentiation between DNA and RNA by characteristic fluorescence: green for DNA and red for RNA
- Alternative to ethidium bromide, non-toxic, non-mutagenic
- Up to 4 x as sensitive as ethidium bromide (approx. 0.1 ng/band)
- Can be used with the usual green filters
- Excitation with UV light (300 nm) and blue light (500 nm) possible
- Compatible with all common *down-stream* applications

Art. No.	Packaging	Pack Qty.	Pack.	€	€
2E09.1	1 x 1 ml	1 ml	plastic	134,40	100,75
2E09.2	5 x 1 ml	5 ml	plastic	650,40	487,75

Blotting

-20%**PVDF Blotting Membranes**

Our membranes in flexible roll format or pre-cut sizes for blotting proteins or nucleic acids.



Product name	Dimensions	Pore size	Art. No.	Pack Qty.	€	€	
Transfer membrane ROTI® ProBind PVDF 0.2	300 x 30 cm	0,2 µm	3A7K.1	1 roll	548,25	383,75	
	10 x 10 cm		3A7H.1	25 sheets	301,00	210,70	
Transfer membrane ROTI® PVDF 0.2	300 x 30 cm		1YYC.1	1 roll	475,15	380,10	
	20 x 20 cm		23HC.1	5 sheets	163,40	130,70	
	9 x 10 cm		23H9.1	10 sheets	152,20	121,65	
	7 x 8.4 cm		23HH.1	10 sheets	118,55	94,80	
Transfer membrane ROTI® ProBind PVDF 0.45	300 x 30 cm		0,45 µm	3A7T.1	1 roll	526,75	368,70
	10 x 10 cm			3A7P.1	25 sheets	268,75	188,10
Transfer membrane ROTI® PVDF 0.45	20 x 20 cm			23HA.1	5 sheets	163,40	130,70
	7 x 8.4 cm			23HE.1	10 sheets	118,55	94,80
	10 x 10 cm	23HK.1		10 sheets	152,20	121,65	
	300 x 30 cm	200T.1		1 roll	512,80	410,20	

Safety information and additional data at www.carlroth.com

**Blotting Papers**

Product name	L x W	Thickness	Art. No.	Pack Qty.	€	€
Blotting Papers ROTILABO® Thickness 0,17 mm	20 x 20 cm	0.17 mm	CL69.1	100 sheets	79,60	63,60
Blotting Papers ROTILABO® Thickness 0,35 mm	20 x 20 cm	0.35 mm	CL65.1	100 sheets	92,00	73,50
Blotting Papers ROTILABO® Thickness 0,75 mm	20 x 20 cm	0.75 mm	0943.1	100 sheets	155,20	124,10
Blotting Papers ROTILABO® Thickness 1,0 mm	20 x 20 cm	1.0 mm	CL73.1	25 sheets	59,05	47,15

Safety information and additional data at www.carlroth.com

Blotting Reagents

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Glycine	≥99 %, Blotting Grade	For Western blotting	0079.1	250 g	33,90	25,35
			0079.2	500 g	62,25	46,65
			0079.3	1 kg	109,15	81,80
			0079.4	2.5 kg	209,65	157,20
Methanol	≥99,9 %, Blotting Grade	For Western blotting	0082.1	500 ml	30,65	22,95
			0082.2	1 l	42,50	31,80
			0082.3	2.5 l	89,15	66,80
ROTI®Block	10x conc., ready- to-use	Protein free blocking solution	A151.1	250 ml	67,65	47,30
			A151.4	500 ml	117,20	82,00
			A151.2	1 l	203,20	142,20
SDS	≥99,3 %, Blotting Grade	For Western- and Southern blotting	A151.3	2.5 l	385,95	270,15
			0183.1	100 g	66,55	53,20
			0183.2	250 g	142,45	113,95
TRIS	≥99,9 %, Blotting Grade	For Western blotting and immunode- tection	0183.3	500 g	231,15	184,90
			0188.1	250 g	56,45	45,15
			0188.2	500 g	96,65	77,25
			0188.3	1 kg	166,65	133,30
0188.4	2.5 kg	353,70	282,90			

Safety information and additional data at www.carlroth.com

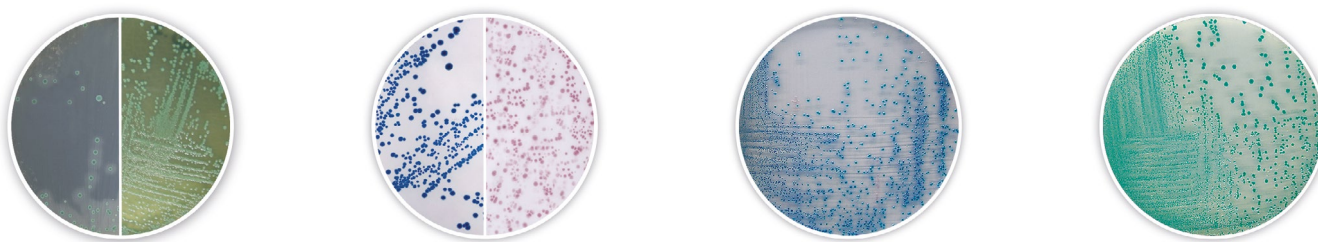




Chromogenic Culture Media

-20%

Chromogenic dry culture media



Chromogenic media revolutionize microbiology by enabling fast, reliable identification of microorganisms through clear, distinctive color reactions—visible at a glance.

Product name	General application	Pack.	Art. No.	Pack Qty.	€	€
Coliforms chromogenic Agar (ISO) -25%	For detection and enumeration of <i>E. coli</i> and other coliforms in water.	plastic	8849.1	500 g	665,45	499,05
Coliforms chromogenic Agar -25%	For selective enrichment and simultaneous detection of <i>E. coli</i> and other Coliforms in water and food samples.	plastic	CL45.2	100 g	166,65	124,95
		plastic	CL45.1	525 g	654,70	491,00
Listeria chromogenic Agar (Base)	Selective medium for detection and enumeration of <i>Listeria monocytogenes</i> acc. to Ottaviani and Agosti.	plastic	3008.1	100 g	92,35	73,85
		plastic	3008.2	500 g	327,90	262,30
Salmonella chromogenic Agar	For isolation of <i>Salmonella</i> from foods, waters and other samples.	plastic	CL46.2	100 g	407,45	325,90
		plastic	CL46.1	500 g	1016,75	1.453,40
		plastic	CL47.2	100 g	131,70	105,35
TBX chromogenic Agar	Selective agar for detection of <i>E.coli</i> in food samples.	plastic	CL47.1	500 g	489,15	391,30

Safety information and additional data at www.carlroth.com

Chromogenic CompactDry™ ready-made plates



Ready-to-use chromogenic plates take efficiency to the next level by combining rapid, reliable microorganism identification with maximum convenience—no preparation needed, just precise results at a glance.

Product name	General application	Art. No.	Pack Qty.	€	€
CompactDry™ AQ	Selective dry medium plate for the detection and enumeration of heterotrophic bacteria in drinking water and ultrapure water.	3LA8.1	40 unit(s)	142,45	113,95
CompactDry™ EC	Ready-made plates with anhydrous chromogenic nutrient medium for detection of coliforms in general, particularly <i>E. coli</i> .	4826.1	40 unit(s)	106,45	85,10
CompactDry™ ETB	Ready-made plates with anhydrous chromogenic nutrient medium for detection of enterobacteriaceae.	4828.1	40 unit(s)	110,20	88,15
CompactDry™ ETC	Ready-to-use plates with dried chromogenic culture medium for the detection of enterococci.	33PH.1	40 unit(s)	127,95	102,30
CompactDry™ LM	Ready-to-use plates with dried chromogenic culture medium for the detection of <i>Listeria monocytogenes</i> in food and beverages.	3LAE.1	40 unit(s)	166,65	133,30
CompactDry™ LS	Ready-to-use plates with dried chromogenic culture medium for the detection of <i>Listeria</i> species in food and beverages.	3LAH.1	40 unit(s)	166,65	133,30
CompactDry™ PA	Ready-to-use plates with dried chromogenic culture medium for the detection of <i>Pseudomonas aeruginosa</i> .	1L17.1	40 unit(s)	203,20	162,50
CompactDry™ SL	Ready-made plates with anhydrous chromogenic nutrient medium for detection of salmonellae.	4817.1	40 unit(s)	142,45	113,95
CompactDry™ VP	Ready-to-use plates with dried chromogenic culture medium for the specific detection of <i>Vibrio parahaemolyticus</i> .	3LAL.1	40 unit(s)	177,40	141,90
CompactDry™ X-BC	Ready-made plates with anhydrous chromogenic nutrient medium for detection of <i>Bacillus cereus</i> .	1070.1	40 unit(s)	145,15	116,10
CompactDry™ X-SA	Ready-made plates with anhydrous chromogenic nutrient medium for detection of <i>Staphylococcus aureus</i> .	1087.1	40 unit(s)	145,15	116,10

Safety information and additional data at www.carlroth.com

Accessories for Microbiology

-15%



S ready-to-use

-20%

ROTI®Store cryo vials sterile, ready-to-use

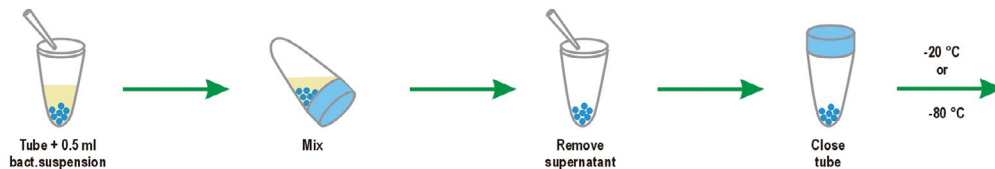
Suitable for freezing all types of microorganisms, including recombinant bacteria.
Optimally suited for cryopreservation of recombinant bacteria in genetic engineering.

- Preparation of cryogenic cultures
- Safe storage
- Simple recultivation
- Ø 12.5 mm, length 49 mm.

Directions for use

To freeze, pipette and mix 0.5 ml fresh culture solution into a ROTI®Store cryo vial. Remove the supernatant and freeze the vial. To recultivate, take one of the beads and inoculate the desired culture medium.

Long-term storage at -80 °C or in liquid nitrogen, short-term storage for a few days at -20 °C is possible.



Art. No.	Packaging	Pack Qty.	Pack.	€	€
P730.3	1 x 5 pieces	5 unit(s)	plastic	27,45	21,90
P730.1	1 x 50 pieces	50 unit(s)	plastic	231,15	184,90
P730.2	5 x 50 pieces	250 unit(s)	plastic	1091,15	872,90

S ready-to-use

-20%

ROTI®Store yeast cryo vials sterile, ready-to-use

Ideal for freezing yeast and monocellular moulds.

ROTI®Store yeast cryo vials contain a special yeast cryo medium, developed for safe storage of yeasts such as *Saccharomyces cerevisiae* or *Candida albicans*. The yeast is protected by a special yeast cryo medium during freezing.

- Preparation of cryogenic cultures
- Safe storage
- Simple recultivation
- Ø 12.5 mm, length 49 mm.

Art. No.	Pack Qty.	Pack.	€	€
X983.1	50 unit(s)	plastic	220,40	176,30



Replicator stamp black

The replicator stamp enables the transfer of bacterial or yeast colonies from one culture medium plate to another.

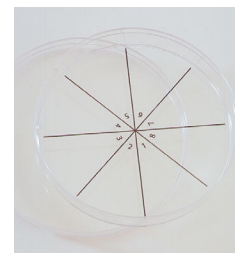
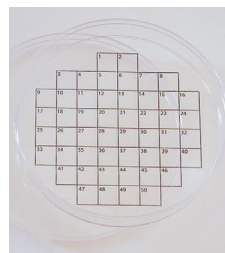
In order to duplicate the colony plates, fix one of the sterile tissues on the stamp with the aluminium ring. Then press the top side of the colony plate gently onto velvety surface of the stamp. Use a new plate to produce the duplication.

Size of one tissue: 15 x 15 cm.

The stamps can be disinfected with ethanol.

Delivery incl. aluminium ring and 12 autoclavable tissues.

Type	Art. No.	Pack Qty.	€	€
stamp (black) + aluminium ring + 12 autoclavable wipes (white)	X994.1	1 set	308,55	262,25



PetriSticker™

Product name	Type	Art. No.	Pack Qty.	€	€
PetriSticker™ Pie pieces	6 arrays	AE95.1	36 unit(s)	39,20	33,25
	8 arrays	AE96.1	36 unit(s)	39,20	33,25
	12 arrays	AE97.1	36 unit(s)	39,20	33,25
	16 arrays	AE98.1	36 unit(s)	39,20	33,25
PetriSticker™ Square grid	32 arrays	AE87.1	36 unit(s)	39,20	33,25
	50 arrays	AE88.1	36 unit(s)	39,20	33,25
	70 arrays	AE89.1	36 unit(s)	39,20	33,25
	100 arrays	AE90.1	36 unit(s)	39,20	33,25



Fixing Agents

-20%



Glutaraldehyde for Electron Microscopy

Fixation with glutaraldehyde is similar to the fixation process with formalin. Optimal results can be achieved with a concentration of 1 to 6 %.

Product name	Pack.	Art. No.	Pack Qty.	€	€
Glutaraldehyde	plastic	4995.1	500 ml	134,40	107,50
		4995.2	2.5 l	607,40	485,90
	plastic	3778.1	1 l	97,75	78,15
		3778.2	5 l	407,45	325,90
	cardboard	4157.2	10 ml	95,15	76,10
	glass	4157.1	25 ml	26,35	21,05
4157.3		50 ml	40,75	32,55	

For safety information and additional data, see www.carlroth.com

Osmium Tetraoxide for Electron Microscopy

Osmium tetraoxide is suitable for fixing lipides and proteins. Because of the low penetration power, application is primarily limited to ultra thin techniques with small tissue samples.

Product name	Pack.	Art. No.	Pack Qty.	€	€
Osmium tetraoxide	glass	8371.1	100 mg	74,10	59,20
		8371.2	500 mg	155,90	124,70
	8371.3	1 g	235,45	188,30	
Osmium tetraoxide solution	glass	7436.1	5 ml	56,90	45,45
	glass	8088.1	5 ml	90,20	72,10

For safety information and additional data, see www.carlroth.com



Paraformaldehyde, granulated

Paraformaldehyde is a formaldehyde polymer. It is used for applications requiring a formaldehyde solution without stabilising additives. The granulated form ensures processing with as little dust as possible.

Storage temperature: +4 to +15 °C

Transport temperature: ambient temp.

extra pure, granulated

Paraformaldehyde is a formaldehyde polymer. It is used for applications requiring a formaldehyde solution without stabilising additives. The granulated form ensures processing with as little dust as possible.

Art. No.	Pack Qty.	Pack.	€	€
0335.1	250 g	plastic	20,35	16,20
0335.2	500 g	plastic	27,85	22,25
0335.3	1 kg	plastic	41,85	33,40
0335.5	2.5 kg	plastic	85,90	68,65
0335.4	5 kg	plastic	161,25	129,00

extra pure

Art. No.	Pack Qty.	Pack.	€	€
0964.1	250 g	plastic	18,85	15,05
0964.2	500 g	plastic	25,70	20,50
0964.3	1 kg	plastic	42,50	33,95
0964.4	5 kg	plastic	166,65	133,30

ready-to-use

-25%

ROTI®Fix spray fixative

ready-to-use, for cytology

For fixation of samples from cytological material.

Cytological smears must be fixed immediately in order to avoid artefacts. Therefore, the still moist specimens are sprayed about 3 times from a distance of 15-20 cm. After rehydration by descending alcohol series the samples can be stained as usual, e.g. by Papanicolaou staining.

Alcoholic solution of ethanol and 2-propanol.

Art. No.	Pack Qty.	Pack.	€	€
CL85.1	100 ml	spray bottle	22,95	16,50

ready-to-use

Bouin's fixative

ready-to-use, for histology

For fixing of histological specimens.

Storage temperature: +15 to +25 °C

Transport temperature: ambient temp.

Not a medical device / Not an IVD product

Art. No.	Pack Qty.	Pack.	€	€
6482.1	100 ml	glass	95,40	28,25
6482.2	250 ml	glass	66,55	53,20
6482.3	500 ml	glass	94,50	75,55
6482.4	1 l	glass	149,45	119,50



Bacteriological Staining

-20%

Gram Staining

Gram staining is the most important technique for differentiation and identification of bacteria. It was developed by the Danish bacteriologist Hans Christian Gram (1853-1938). Due to the structure of their cell walls nearly all bacterial species can be differentiated in gram-positive and gram-negative bacteria.

Solutions for Gram staining

Product name	Purity	Instructions for use	Art. No.	Pack Qty.	€	€
Carbol gentian violet solution	for microscopy	For staining bacterial cell walls as the first step of the Gram staining procedure	CN00.1	500 ml	43,55	34,80
			CN00.2	1 l	64,40	51,45
Carbolic fuchsin solution	for microscopy	As a counterstain for Gram staining and for staining acid-fast bacteria such as TBC bacteria according to Ziehl-Neelsen (hot staining)	A130.2	500 ml	31,10	24,80
			A130.1	1 l	50,45	40,30
Gram's decolourising solution	ready-to-use, for microscopy	For differentiation of bacteria during Gram staining	CN02.1	500 ml	38,60	30,85
Iodine-potassium iodide solution acc. to Lugol	0,33 % iodine, for microscopy, resublimated	As mordant in Gram staining procedure	N052.1	250 ml	31,75	25,35
			N052.3	500 ml	40,35	32,25
			N052.2	1 l	55,80	44,60
Safranin O solution	for microscopy	1 % safranin solution in water. Replaces Carbolic fuchsin solution during staining procedure of gram-negative bacteria.	CN01.1	500 ml	56,90	45,45

Safety information and additional data at www.carlroth.com

Neisser Staining

The Neisser stain is a microbiological stain for visualising the polar bodies in the cytoplasm of gram-positive bacteria. This staining is used to identify diphtheria bacteria. Cells are stained with methylene blue and crystal violet in acidic solution and then counterstained with chrysoidin solution. Polyphosphate granules appear black-violet in the yellow-brown stained cells.

Neisser's solutions

Product name	Purity	Instructions for use	Art. No.	Pack Qty.	€	€
Neisser's solution I	for microscopy	Methylene blue solution 0.1 %	3463.1	100 ml	30,00	23,95
			3463.2	500 ml	60,10	48,05
Neisser's solution II	for microscopy	Crystal Violet solution	3464.1	100 ml	30,00	23,95
			3464.2	500 ml	60,10	48,05
Neisser's solution III	for microscopy	Chrysoidin solution	3466.1	100 ml	30,00	23,95
			3466.2	500 ml	60,10	48,05

Safety information and additional data at www.carlroth.com

Staining of Acid-fast Bacteria

Ziehl-Neelsen staining kit ready-to-use for microscopy

Staining kit for visualising acid-fast bacteria (e.g. pathogen of TB *Mycobacterium tuberculosis*), incl. instructions for use.

Storage temperature: +15 to +25 °C
Transport temperature: ambient temp.

The kit contains

Loeffler's methylene blue solution (Art. No. AE64)
Carbolic fuchsin solution (Art. No. A130)
Contents of this kit may be bought separately.

Not a medical device / Not an IVD product

Art. No.	Packaging	Pack Qty.	Pack.	€	€
8276.1	2 x 500 ml	1 kit	glass	69,35	55,45

Phone

+49 721 / 56 06 510 · info@carlroth.com

