

neoFroxx GmbH

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Certificate of Analysis

Product	Proteinase K solution (20 mg/ml) for molecular biology
Brand	BioFroxx

Product number	1151
Lot number	5FB643AC
CAS number	39450-01-6
Storage	-20°C
Manufacturing date	November 2020
Retest period (months)	24
Retest date	November 2022

Parameter	Specification	Result
DNases/RNases	not detectable	complies
Activity*	min. 600 U/ml	≥ 800 U/ml
*One unit releases 1 µmol folin-positive amino acids and peptides (measured as tyrosine) at 37 °C, pH 7.5, using denatured hemoglobin as a substrate		
Composition		
Proteinase K	20 mg/ml	complies
CaCl ₂	1 mM	complies
Sodium azide	0.02 %	complies

Einhausen, 18.05.2021	Quality control: M.F.
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Certificate of Analysis

Product	Phenol red for biochemistry
Brand	BioFroxx

Product number	1190
Lot number	620D03F7
Synonyms	Phenolsulfonphthalein
Formula	C ₁₉ H ₁₄ O ₅ S
Molecular weight	354.38 g/mol
CAS number	143-74-8
Storage	below 25°C
Manufacturing date	January 2022
Retest period (months)	60
Retest date	January 2027

Parameter	Specification	Result
Appearance (Color)	dark red to dark brown	dark red
Appearance (Form)	powder	complies
Identity (IR)	passes test	complies
Solubility (Color) 100 mg plus 100 ml 1 N NaOH	dark red	complies
pH 6.8 (yellow), 8.2 (red)	complies	complies
Cell culture test	passes test	complies

Einhausen, 18.02.2022	Quality control: M.F.
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Certificate of Analysis

Product	Sodium chloride for molecular biology
Brand	BioFroxx

Product number	1236
Lot number	61A640FB
Synonyms	Common salt, Saline, Rock salt
Formula	NaCl
Molecular weight	58.44 g/mol
CAS number	7647-14-5
Storage	below 25°C
Manufacturing date	October 2020
Retest period (months)	60
Retest date	October 2025

Parameter	Specification	Result
DNases/RNases/Proteases	not detectable	complies
Assay (titr.)	min. 99.5 %	99.9 %
Bromide	max. 0.005 %	complies
Iodide	max. 0.001 %	complies
Phosphate	max. 0.001 %	complies
Sulfate	max. 0.01 %	complies
Loss in drying (2 h; 105°C)	max. 0.5 %	< 0.1 %
Acidic/alkaline react. substances	max. 0.5 %	complies
Appearance of solution	clear, colorless	complies
Ba	max. 0.001 %	complies
Ca	max. 0.002 %	complies
Fe	max. 0.0001 %	complies
K	max. 0.005 %	complies
Mg	max. 0.001 %	complies
Pb	max. 0.0005 %	complies

Einhausen, 07.02.2022

Quality control: M.F.

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Certificate of Analysis

Product	Lysozyme for molecular biology
Brand	BioFroxx

Product number	1256
Lot number	EZ636BCA5B
Synonyms	[E.C. 3.2.1.17], Muramidase
Molecular weight	~14400 g/mol
CAS number	9001-63-2
Storage	-20°C
Manufacturing date	August 2022
Retest period (months)	36
Retest date	August 2025

Parameter	Specification	Result
Appearance	White to off-white powder	complies
DNases/RNases/ Proteases	not detectable	complies
Water content	max. 8.0 %	5.6 %
Sulfated ash	max. 2.0 %	0.13 %
Activity (FIP units)	min. 20000 U/mg	complies

Einhausen, 22.11.2022

Quality control: M.F.

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Certificate of Analysis

Product	TE buffer (100X) pH 8.0 for electrophoresis
Brand	BioFroxx

Product number	1458
Lot number	5DB03755
Storage	below 25°C
Manufacturing date	October 2019
Retest date	October 2022

Parameter	Specification	Result
pH (20°C; adjusted with HCl)	7.9 - 8.1	8.1
Composition		
EDTA-Na2 · 2H2O	37.22 g/l (0.1 M)	37.22 g/l (0.1 M)
Tris	121.14 g/l (1 M)	121.14 g/l (1 M)

Einhausen, 24.10.2019	Quality control: M.F.
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Certificate of Analysis

Product	N-Acetyl-L-cysteine for biochemistry
Brand	BioFroxx

Product number	1497
Lot number	62275893
Synonyms	2-Acetamido-3-mercaptopropionic acid, L- α -Acetamido- β -mercaptopropionic acid, Mercapturic acid
Formula	C ₅ H ₉ NO ₃ S
Molecular weight	163.19 g/mol
CAS number	616-91-1
Storage	below 25°C
Manufacturing date	February 2022
Retest period (months)	24
Retest date	February 2024

All amino acids from neoFroxx are of non-animal origin!

Parameter	Specification	Result
Appearance	white crystalline powder	complies
Assay	min. 99 %	100.8 %
Solubility (5 % in water)	clear, colorless	complies
Heavy metals (as Pb)	max. 0,001 %	complies
Sulfated ash	max. 0.2 %	0.06 %
Loss on drying	max. 1 %	0.15 %

Einhausen, 09.03.2022

Quality control: M.F.

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Certificate of Analysis

Product	Cetyltrimethylammonium bromide for molecular biology
Brand	BioFroxx

Product number	1743
Lot number	634D52BF
Synonyms	CTAB, Cetrimonium bromide, Cetyltrimethylammonium bromide, Palmityltrimethylammonium bromide
Formula	C ₁₉ H ₄₂ BrN
Molecular weight	364.46 g/mol
CAS number	57-09-0
Storage	below 25°C
Manufacturing date	September 2022
Retest period (months)	36
Retest date	September 2025

Parameter	Specification	Result
Assay (TLC)	min. 99.0 %	99.8 %
Assay (titr. with HClO ₄)	min. 99.0 %	complies
Appearance (Color)	white	complies
Appearance (Form)	powder	complies
Solubility (Color)	colorless to faint yellow	complies
Solubility (Turbidity) 1 g + 10 ml water	clear to slightly hazy	complies
Proton NMR spectrum	conforms to structure	complies
Suitability	suitable	complies
Suitable for use in DNA precipitation		
DNAse, Exonuclease Detection	none detected	complies
NICKase, Endonuclease Detection	none detected	complies
RNAse Detection	none detected	complies

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Certificate of Analysis

Product	Dimethyl sulfoxide (DMSO) for biochemistry
Brand	BioFroxx

Product number	1979
Lot number	63175E14
Synonyms	DMSO, Methylsulfoxide
Formula	C ₂ H ₆ OS
Molecular weight	78.13 g/mol
CAS number	67-68-5
Storage	below 25°C
Manufacturing date	July 2022
Retest period (months)	48
Retest date	July 2026

DMSO is of synthetic origin!

Parameter	Specification	Result
Assay (GC)	min. 99.5 %	99.99 %
Free acid	max. 0.001 %	complies
Non-volatile matter	max. 0.001 %	complies
Heavy metals (as Pb)	max. 0.001 %	complies
Insoluble matter	passes test	complies
Water (K.F.)	max. 0.1 %	complies
Cu	max. 0.00005 %	complies
Fe	max. 0.0001 %	complies
K	max. 0.00005 %	complies
A (1 cm/water HPLC grade) 280 nm	max. 0.25	complies

Einhausen, 11.10.2022

Quality control: M.F.

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Certificate of Analysis

Product	Potassium dihydrogen phosphate pure EP (pharma grade)
Brand	Labochem

Product number	LC-4508
Lot number	63205A39
Synonyms	prim.-Potassium phosphate, Potassium phosphate mono-basic
Formula	KH_2PO_4
Molecular weight	136.09 g/mol
CAS number	7778-77-0
Storage	below 25°C
Manufacturing date	September 2022
Retest period (months)	60
Retest date	September 2027

We herewith confirm that this product meets the requirements of the European Pharmacopoeia (EP).

Parameter	Specification	Result
Assay (alkalim., calc. on dried subst.)	98.0 - 100.5 %	100.0 %
Assay (alkalim.; dried subst.)	min. 99.0 %	complies
Appearance of solution	passes test	complies
Identity	passes test	complies
Insoluble substances	max. 0.2 %	complies
pH (1 % in water)	4.2 - 4.8	complies
pH (2 % in water)	4.2 - 4.6	complies
pH (5 % in water)	4.2 - 4.5	4.3
Carbonate	passes test	complies
Condensed phosphate	passes test	complies
Chloride (Cl)	max. 0.009 %	complies
Fluoride (F)	max. 0.001 %	complies
Sulfate (SO_4)	max. 0.017 %	complies
Heavy metals (as Pb)	max. 0.001 %	complies
Al	max. 0.0005 %	complies
As	max. 0.0001 %	complies
Cd	max. 0.0001 %	complies
Fe	max. 0.001 %	complies
Hg	max. 0.0001 %	complies
Na	max. 0.1 %	complies
Pb	max. 0.0001 %	complies
Sb (*)	max. 0.0009 %	complies

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Certificate of Analysis

Parameter	Specification	Results
Residual solvents (ICH Q3C)	excluded by production process	complies
Reducing substances	passes test	complies
Loss on drying (105°C)	max. 0.5 %	complies
Loss on drying (130°C)	max. 1.0 %	complies
Elemental impurity specifications have been set considering ICH Q3D (Guideline for Elemental Impurities). Class 1-3 elements are not likely to be present above the ICH Q3D option 1 limit, unless specified and indicated (*).		

Einhausen, 19.09.2022

Quality control: M.F.

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Certificate of Analysis

Product	Methylene blue solution 0.1 %
Brand	Labochem

Quality	pure
Product number	LC-4901
Lot number	5CDD73D6
Synonyms	Methylthioninium chloride
Storage	below 25°C
Manufacturing date	March 2016
Retest date	March 2020

Parameter	Specification	Result
Appearance	blue solution	complies
Composition	Methylene blue 1 g / water 999 g	complies

Einhausen, 17.05.2019	Quality control: M.F.
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Certificate of Analysis

Product	Magnesium citrate pure
Brand	Labochem

Product number	LC-4990
Lot number	5E85AB0C
Synonyms	Citric acid magnesium salt
Formula	$C_6H_6MgO_7$
Molecular weight	214.43 g/mol
CAS number	7779-25-1
Storage	below 25°C
Retest date	August 2024

Parameter	Specification	Result
Assay (Mg)	8.0 - 9.0 %	complies
pH (5 % in water)	3.5 - 4.5	4.0
Sulfate	max. 0.2 %	complies
As	max. 0.0003 %	complies
Cu	max. 0.0025 %	complies
Pb	max. 0.001 %	complies
Zn	max. 0.0025 %	complies

Einhausen, 30.09.2020	Quality control: M.F.
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Certificate of Analysis

Product	di-Sodium hydrogen phosphate dihydrate pure EP, USP (pharma grade)
Brand	Labochem

Product number	LC-6772
Lot number	623B05B1
Synonyms	Sodium phosphate secondary, Sodium phosphate di-basic
Formula	$\text{HNa}_2\text{O}_4\text{P} \cdot 2\text{H}_2\text{O}$, $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$
Molecular weight	177.99 g/mol
CAS number	10028-24-7
Melting point	95°C
Storage	below 25°C
Manufacturing date	March 2022
Retest period (months)	60
Retest date	March 2027

We herewith confirm that this product meets the requirements of the European Pharmacopoeia (EP) and the US Pharmacopoeia (USP).

Parameter	Specification	Result
Assay (calculated on dried substance acc. to EP)	98.0 - 101.0 %	99.8 %
Assay (calculated on dried substance acc. to USP)	98.0 - 100.5 %	99.8 %
Identity	passes test	complies
Appearance of solution	passes test	complies
In water insoluble matter	max. 0.3 %	<0.05 %
pH (5 % in water)	8.9 - 9.2	9.1
Chloride (Cl)	max. 0.005 %	complies
Sulfate (SO_4)	max. 0.02 %	complies
As (Arsenic)	max. 0.0002 %	complies
Fe (Iron)	max. 0.001 %	complies
Sodium dihydrogen phosphate (NaH_2PO_4)	max. 1.7 %	complies
Residual solvents (ICH Q3C)	excluded by manufacturing process	complies
Substances reducing Potassium permanganate (as O)	passes test	complies
Loss on drying (130°C)	19.5 - 21.0 %	20.2 %

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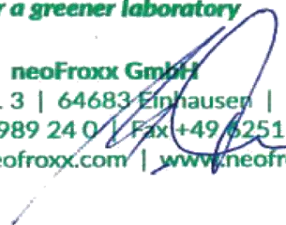
Parameter	Specification	Results
Endotoxins	max. 2.5 I.U./g	complies
Total aerobic microbial count	max. 1E+02 CFU/g	complies
Total yeast and mould count	max. 1E+02 CFU/g	complies
DNases (Exo- and endonucleases), RNases, Proteases (not detectable)	passes test	complies

Einhausen, 25.05.2022

Quality control: M.F.

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Certificate of Analysis

Product	tri-Sodium citrate dihydrate p.A.
Brand	Labochem

Product number	LC-6875
Lot number	635668EF
Synonyms	Trisodium citrate, Sodium citrate dihydrate
Formula	$C_6H_5Na_2O_7 \cdot 2 H_2O$
Molecular weight	294.10 g/mol
CAS number	6132-04-3
Storage	below 25°C
Manufacturing date	March 2022
Retest period (months)	60
Retest date	March 2027

Parameter	Specification	Result
Assay (titr.)	min. 99 %	99.78 %
pH (5 % in water, 20°C)	7.5 - 9.0	8.71
Insoluble matter in water	max. 0.003 %	complies
Darkened subst. by H_2SO_4	passes test	complies
Reducing substances	passes test	complies
Water	11 - 13 %	12.39 %
Ammonium	max. 0.001 %	complies
Chloride	max. 0.001 %	complies
Phosphate	max. 0.002 %	complies
Oxalate	max. 0.01 %	complies
Sulfate	max. 0.005 %	complies
Ca	max. 0.005 %	complies
Cu	max. 0.001 %	complies
Fe	max. 0.0005 %	complies
Ni	max. 0.005 %	complies
Pb	max. 0.0005 %	complies
Zn	max. 0.001 %	complies

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Certificate of Analysis

Product	Sodium hydroxide pellets pure EP, NF (pharma grade)
Brand	Labochem

Product number	LC-7334
Lot number	63591B1C
Synonyms	Caustic soda
Formula	NaOH
Molecular weight	40.00 g/mol
CAS number	1310-73-2
Storage	below 25°C
Manufacturing date	October 2022
Retest period (months)	60
Retest date	October 2027

We herewith confirm that this product meets the requirements of the European Pharmacopoeia (EP) and the National Formulary (NF).

Parameter	Specification	Result
Assay (acidim., NaOH)	min. 98.0 %	complies
Assay (total alkalinity calc. as NaOH)	98.0 - 100.5 %	99.3 %
Assay (Na)	54.0 - 59.8 %	complies
Identity	passes test	complies
Appearance of solution	passes test	complies
Insoluble substances and organic matter	passes test	complies
Carbonate (as Na ₂ CO ₃)	max. 0.5 %	complies
Chloride (Cl)	max. 0.02 %	0.008 %
Phosphate (PO ₄)	max. 0.002 %	complies
Silicate (SiO ₂)	max. 0.01 %	complies
Sulfate (SO ₄)	max. 0.02 %	< 0.003 %
Total nitrogen (N)	max. 0.0005 %	< 0.0005 %
Heavy metals (as Ag)	max. 0.002 %	complies
Heavy metals (as Pb)	max. 0.0005 %	complies
Al	max. 0.001 %	complies
As	max. 0.0003 %	complies
Ca	max. 0.005 %	complies
Cu	max. 0.0005 %	complies
Fe	max. 0.001 %	complies
Hg	max. 0.00001 %	complies

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Parameter	Specification	Results
K	max. 0.1 %	complies
Mg	max. 0.002 %	complies
Ni	max. 0.001 %	complies
Pb	max. 0.00005 %	complies
Zn	max. 0.0025 %	complies
Residual solvents (EP/USP/ICH)	excluded by manufacturing process	complies
Endotoxins (revised)	max. 2.5 I.U./g	complies

Einhausen, 16.11.2022

Quality control: M.F.

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