Ammonium Bicarbonate
Fine, White Crystalline Powder

packaging		Mfr. No
500 g	PolyBottle	BP2413-500

CH_5NO_3
CAS: 1066-33-7
MW: 79.06
EINECS: 213-911-5

H302
P264, P270, P301+P312, P330

Assay (as NH_3)	21.30-21.73
Chloride (Cl)	<=5ppm
Heavy Metals (Pb)	<=5ppm
Iron	<=5ppm
Residue after ignition	<=0.005%
Sulfate (SO_4)	<=0.002%

Applications: Ammonium Bicarbonate is used for many biochemical applications.
Recommended Storage: RT

Ammonium Carbonate
Certified ACS
Lumps

packaging		Mfr. No
500 g	Amber Glass	BP2414-500

$CH_8N_2O_3$
CAS: 8000-73-5
MW: 96.09
Hartshorn salt

H302
P301+P312

Assay (as NH_3)	>=30%
Chloride (Cl)	<=5ppm
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.005%
Iron (Fe)	<=3 ppm
Non-volatile matter	<=0.005%
Sulfur compounds (as SO_4)	<=0.002%

Applications: Ammonium Carbonate is used in many biochemical procedures.
Description: This product is a mixture of Ammonium bicarbonate and Ammonium carbonate.
Recommended storage: RT

Ammonium Phosphate, Monobasic
White Crystalline Powder

packaging		Mfr. No
500 g	PolyBottle	BP2427-500

H_6NO_4P
CAS: 7722-76-1
MW: 115.03
EINECS: 231-764-5

Assay	>=98.0%
Calcium (Ca)	<=0.001%
Chloride (Cl)	<=5ppm
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.005%
Iron	<=0.001%
Magnesium (Mg)	<=0.0005%
Nitrate	<=0.001%
pH of 5% Solution (at 25°C)	3.8-4.4
Potassium	<=0.005%
Sodium	<=0.005%
Sulfate (SO_4)	<=0.01%

Applications: Ammonium Phosphate, Monobasic is used in several biochemical research applications.
Recommended Storage: RT

Ammonium Phosphate, Dibasic
Colorless Crystals

packaging		Mfr. No
500 g	PolyBottle	BP361-500

$H_9N_2O_4P$
CAS: 7783-28-0
MW: 132.06
H335, H315, H319

P261, P302+P352, P280, P305+P351+P338

Assay	98.0-101.0%
Calcium (Ca)	<=0.001%
Chloride (Cl)	<=5ppm
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.005%
Iron	<=0.001%
Magnesium (Mg)	<=0.0005%
Nitrate	<=0.003%
pH of 5% Solution (at 25°C)	7.7 to 8.1
Potassium	<=0.005%
Sodium	<=0.005%
Sulfate (SO_4)	<=0.01%

Applications: Ammonium Phosphate Dibasic is suitable for use in many biological applications.
Recommended Storage: RT

BES
White Crystalline Powder

packaging		Mfr. No
25 g	PolyBottle	BP501-25
100 g	PolyBottle	BP501-100
500 g	PolyBottle	BP501-500

$C_6H_{15}NO_5S$
CAS: 10191-18-1
MW: 213.25
EINECS: 233-465-5

H315, H319, H335
P261, P302+P352, P280, P305+P351+P338

Assay (as free acid)	>=99%
DNase	Not detected
Loss on Drying (at 105°C)	<=1%
PKa (at 25°C)	7.1 ±0.1
Protease	Not detected
RNase	Not detected

Applications: BES is a biological buffer with a usable pH range of 6.4 to 7.8.
Recommended Storage: RT

Bicine
White Powder

packaging		Mfr. No
100 g	PolyBottle	BP2646-100
250 g	PolyBottle	BP2646-250
1 kg	PolyBottle	BP2646-1

$C_6H_{13}NO_4$
CAS: 150-25-4
MW: 163.17
EINECS: 205-755-1

FTIR	Conforms to standard
OD260nm (10% aqueous solution)	<0.100
OD280nm (10% aqueous solution)	<0.100
pH of 1% Aqueous Solution	4.5-5.5

Applications: Bicine is one of the zwitterionic amino acids known as "Good" buffers. Used as a biological buffer and chelating agent.
Recommended Storage: RT

Bis-Tris
Fine White Crystals

packaging		Mfr. No
100 g	PolyBottle	BP301-100

$C_8H_{19}NO_5$
CAS: 6976-37-0
MW: 209.24
EINECS: 230-237-7
H290, H315, H319, H335

P234, P390, P261,
P302+P352, P280,
P305+P351+P338

Assay	>=99%
Melting Point	104°C ±2°C
PKa (at 25°C)	6.5 ±0.2

Applications: This biological buffer has a usable pH range of 5.8 to 7.2.
Recommended Storage: RT

CellPURE™ Bis-Tris Propane
White crystalline powder
Cell Culture-Tested

packaging		Mfr. No
100 g	Poly Bottle	BP2943-100

$C_{11}H_{26}N_2O_6$
CAS: 64431-96-5
MW: 282.33

Absorbance 33% w/w at 290nM	<=0.05
Cell culture test	To pass test
DNase	Not detected
Endotoxin	<=1.0 EU/mg
Heavy metals (as Pb)	<=5 ppm
Infrared scan	Conforms to ref.
Purity (by titration)	>=99.0%
Nickase	Not detected
NMR	<=0.5%
Protease	Not detected
RNase	Not detected
Solubility	Clear and colorless
Standard plate count	<=100CFU/gm
Water (Karl Fischer)	<=0.2%

Applications: Cell cultivation, isolation of cells, enzyme assays, and other biochemical applications
Description: Cell culture tested; Analyzed for the absence of nucleases and proteases; Tested for endotoxin and bioburden levels; pKa values mostly independent of temperature and concentration; High water solubility; Minimal permeability to biological membranes; Manufactured under strict quality control guidelines to ensure performance and reliability.
Recommended storage: RT

JustPURE™ BIS-TRIS Propane
Cellular and Molecular Biology - White Powder

packaging		Mfr. No
25 g	Poly Bottle	BP2929-25

$C_{11}H_{26}N_2O_6$
CAS: 64431-96-5
MW: 282.33

Aluminum (Al)	<=0.0005%
Ammonia	<=0.05%
Calcium (Ca)	<=0.0005%
Chloride	<=0.05%
Copper (Cu)	<=0.0005%
Iron (Fe)	<=0.0005%
Lead (Pb)	<=0.001%
Magnesium (Mg)	<=0.0005%
Purity (by titration)	>=99.0%
Optical Absorbance at 260nm	<=0.1
Optical Absorbance at 280nm	<=0.05
pH at 20°C	Inclusive between 10.0-12.0
Phosphorus	<=0.005%
Residue after ignition	<=0.1%
Sodium (Na)	<=0.005%
Solubility	Clear and colorless
Sulfate (SO_4)	<=0.005%

Applications: For high efficiency transfection of mammalian cells, gel electrophoresis of RNA, protein isolation applications, cell cultures and enzyme assays and bioanalytical methods, such as IEF, 2-D electrophoresis and SDS-PAGE.
Description: Ultra-pure zwitterionic buffers; Optimized for research in cellular and molecular biology; Minimal permeability to biological membranes; Low interference with biological reactions; pKa values mostly independent of temperature and concentration; High water solubility; Minimal absorption in spectral range 240 to 700nm.
Recommended storage: RT

Calcium Chloride Dihydrate
White Crystals to Powder

packaging		Mfr. No
100 g	PolyBottle	BP510-100
250 g	PolyBottle	BP510-250
500 g	PolyBottle	BP510-500

$CaCl_2.2H_2O$
CAS: 10035-04-8
MW: 147.02

H319
P280, P305+P351+P338

Assay	>=99-103.3%
DNase	Not detected
pH (5% solution in H_{20} at 25°C)	4.5-8.5
Protease	Not detected
RNase	Not detected

Applications: Calcium Chloride is suitable for use in the preparation of buffer solutions.
Recommended Storage: RT

Calcium Phosphate Dibasic Anhydrous
White Powder

packaging		Mfr. No
500 g	AmberGlass	BP441-500

$CaHO_4P$
CAS: 7757-93-9
MW: 136.06

Arsenic	<=8ppm
Assay (as Ca)	30.0-31.7%
Barium	To pass test
Chloride (Cl)	<=0.25%
Fluoride	<=0.005%
Heavy Metals (Pb)	<=0.003%
Loss on ignition	6.6-8.5%
Sulfate (SO_4)	<=0.5%

Applications: Calcium Phosphate can be used for column chromatography of proteins.
Recommended Storage: RT

CAPS
Fine White Crystals

packaging		Mfr. No
100 g	AmberGlass	BP321-100
500 g	AmberGlass	BP321-500

$C_9H_{19}NO_3S$
CAS: 1135-40-6
MW: 221.31
EINECS: 214-492-1
H335, H319, H315

P261, P301+P312,
P302+P352, P280,
P305+P351+P338

Assay	>=98%
IR	Conforms to standard
PKa (at 25°C)	10.4 ±0.2

Applications: This biological buffer has a usable pH range of 9.7 to 11.1.
Recommended Storage: RT

CHES
Fine White Crystals

packaging		Mfr. No
100 g	PolyBottle	BP318-100

$C_8H_{17}NO_3S$
CAS: 103-47-9
MW: 207.29
EINECS: 203-115-6

H335, H315, H319
P261, P302+P352, P280,
P305+P351+P338

Assay	>=98%
DNase	Not detected
PKa (at 25°C)	9.3 ±0.2
RNase	Not detected

Applications: This biological buffer has a usable pH range of 8.6 to 10.0.
Recommended Storage: RT

Cytoscint* Scintillation Cocktail
Molecular Biology

packaging		Mfr. No
4 ℓ	AmberGlass,EcoSafPak*	BP458-4

3H Background	<=50cpm
3H Efficiency	>=50%
Aqueous PBS Buffer Capacity	>=4.5%
Distilled Water Capacity	>=8.5%
GC, IR, TLC	Conforms to standard
Specific Gravity	0.88 ±0.02

Applications: Universal LSC Cocktail.
Components: 65-95% Pseudocumene, 0-35% Ethoxylated Nonylphenol, <0.1% 2.5-Diphenyloxazole, <1% 1.4-bis[2-(2-methylphenyl)ethenyl]-benzene [95-63-6 (Pseudocumene)] ; [9016-45-9 (Ethoxylated Nonylphenol)] ; [92-71-7 (2.5-Diphenyloxazole)] ; [13280-61-0 (1.4-Bis[2-(2-methylphenyl)ethenyl] -benzene)]
UN 1993; DOT Class 3:Flammable Liquid
EcoSafPak* is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.

Deoxycholic Acid Sodium Salt

packaging		Mfr. No
100 g	PolyBottle	BP349-100

$C_{24}H_{39}NaO_4$
CAS: 302-95-4
MW: 414.58
EINECS: 206-132-7

Arsenic	<=0.001%
Assay (dry basis)	>=99%
Lead	<=0.001%
Moisture	<=5%
Sodium Choleate	<=2%

Applications: This anionic detergent is useful for solubilizing and isolating membrane-bound proteins in an active state.
Recommended Storage: RT

Dimethyl Sulfoxide

packaging		Mfr. No
100 mℓ	AmberGlass	BP231-100
1 ℓ	AmberGlass,EcoSafPak*	BP231-1
4 ℓ	AmberGlass,EcoSafPak*	BP231-4

C_2H_6OS
CAS: 67-68-5
MW: 78.13
EINECS: 200-664-3

A280nm	<=0.10
Assay	>=99.7%
Color (APHA)	<=10
Density (at 25°C)	1.095 ±0.005g/mℓ
Freezing Point	>=18.0°C
Residue after evaporation	<=0.001%
Water	<=0.2%

Applications: DMSO is a cryopreservation agent for cells, and may also be used in bacterial transformations.
Note: Sold for nonmedical use only. Not to be used or sold as a drug for humans or animals.
Recommended Storage: RT
EcoSafPak* is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.

Electrode Storage Solution

packaging		Mfr. No
1 ℓ	PolyBottle	BP2418-1

pH (at 25°C)	3.9 ±0.1
Potassium chloride	6.2 ±0.3g/ℓ
Residue after evaporation	1.65 ±0.08%

Applications: Electrode Storage Solution is a safe and convenient method to maintain sensitivity by removing buildup from electrodes.
For use in storage of pH electrodes.
Recommended Storage: RT

JustPURE™ EPPS
Cellular and Molecular Biology
White Powder

packaging		Mfr. No
100 g	Poly Bottle	BP2933-100

$C_9H_{20}N_2O_4S$ EINECS: 240-198-8
CAS: 16052-06-5
MW: 252.33

Ammonia	<=0.1%
Bromide	<=0.1%
Calcium (Ca)	<=0.002%
Copper (Cu)	<=0.0005%
Iron (Fe)	<=0.0005%
Lead (Pb)	<=0.001%
Magnesium (Mg)	<=0.0005%
Purity (by titration)	>=99.5%
Optical Absorbance at 260nm	<=0.1
Optical Absorbance at 280nm	<=0.1
pH at 20°C	Inclusive between 5.0-7.0
Phosphorus	<=0.005%
Residue after ignition	<=0.1%
Sodium (Na)	<=0.005%
Solubility	Clear and colorless

Applications: For high efficiency transfection of mammalian cells, gel electrophoresis of RNA, protein isolation applications, cell cultures and enzyme assays and bioanalytical methods, such as IEF, 2-D electrophoresis and SDS-PAGE.
Description: Ultra-pure zwitterionic buffers; Optimized for research in cellular and molecular biology; Minimal permeability to biological membranes; Low interference with biological reactions; pKa values mostly independent of temperature and concentration; High water solubility; Minimal absorption in spectral range 240 to 700nm.
Recommended storage: RT

Ethylenediamine Tetraacetate, DEPC-Treated Solution
0.5M, pH 8.0

packaging		Mfr. No
100 mℓ	PolyBottle	BP2483-100
500 mℓ	PolyBottle	BP2483-500
1 ℓ	PolyBottle	BP2483-1

CAS: 60-00-4
H319
P280, P305+P351+P338

Molarity	0.475-0.525M
pH	8.0 ± 0.1
Protease	Not detected
RNase	Not detected

Applications: EDTA, DEPC-Treated solution is ideal for RNA work.
[60-00-4 (Ethylenediamine Tetraacetic Acid, <14.0%)] ; [1310-73-2 (Sodium Hydroxide, <4.0%)] ; [1609-47-8 (Diethyl Pyrocarbonate, 1.0%)]
Recommended Storage: RT

Ethylenediamine Tetraacetic Acid
White Crystalline Powder

packaging		Mfr. No
500 g	AmberGlass	BP118-500

$C_{10}H_{16}N_2O_8$ P264, P280,
CAS: 60-00-4 P305+P351+P338, P337+P313
MW: 292.23
H319, H332

Assay	>=99.5%
Insoluble in Dilute NH_4OH	Clear and haze-free
Iron	<=0.005%
Magnesium (Mg)	<=0.0005%
Nitrilotriacetic Acid ($N(CH_2COOH)_3$)	<=0.1%
pH of 5% Solution (at 25°C)	2.5-3.5
Residue after ignition	<=0.2%

Recommended storage: RT

Ethylenediamine Tetraacetic Acid, Dipotassium Salt Dihydrate
White Crystalline Powder

packaging		Mfr. No
500 g	AmberGlass	BP119-500

$C_{10}H_{14}K_2N_2O_8.2H_2O$ P261, P302+P352, P280,
CAS: 25102-12-9 P305+P351+P338
MW: 404.46
H335, H319, H315

Assay	>=99.0%
Chloride (Cl)	<=0.02%
Heavy Metals (Pb)	<=0.001%
Iron	<=0.001%
pH of 5% Solution (at 25°C)	4-5

Recommended storage: RT

Ethylenediamine Tetraacetic Acid, Disodium Salt Dihydrate
Crystalline Powder - Electrophoresis

packaging		Mfr. No
500 g	PolyBottle	BP120-500
1 kg	PolyBottle	BP120-1

$C_{10}H_{14}N_2Na_2O_8.2H_2O$ H332
CAS: 6381-92-6 P304+P312
MW: 372.23

Arsenic	<=2ppm
Assay	>=99%
Calcium (Ca)	<=20ppm
Electrophoresis	To pass test
Insoluble matter	<=0.005%
Iron	<=10ppm
Lead	<=5ppm
Mercury	<=2ppm
Nitrilotriacetic Acid ($N(CH_2COOH)_3$)	<=0.1%
pH of 5% Solution in Water (at 25°C)	4.0-6.0

Recommended storage: RT

Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate
White Powder

packaging		Mfr. No
500 g	AmberGlass	BP121-500

$C_{10}H_{12}N_2Na_4O_8.2H_2O$ P261, P280,
CAS: 10378-23-1 P301+P330+P331, P310,
MW: 416.2 P305+P351+P338
H302, H332, H318

Assay	>=98.0%
Assay (dry basis)	>=99%
Insoluble matter	<=0.005%
Nitrilotriacetic Acid ($N(CH_2COOH)_3$)	<=0.2%
Nitrolotriacetic acid	<=0.2%
pH of 1% w/w Solution	10.7-11.7
pH of a 1% w/w solution	Inclusive between 10.7-11.7

Recommended storage: RT

Ficoll* 400
Molecular Biology
White to Off-white Powder

packaging		Mfr. No
5 g	PolyBottle	BP525-5
10 g	PolyBottle	BP525-10
25 g	PolyBottle	BP525-25
100 g	PolyBottle	BP525-100
500 g	PolyBottle	BP525-500

CAS: 26873-85-8
MW: 400.000

Specific Rotation α $^{20}_D$ (c=4, H_2O)	52°±2°
DNase	Not detected
Protease	Not detected
RNase	Not detected

Applications: Ficoll 400 is used as a component of Denhardt's Reagent and in gel-loading buffers for DNA gels.
It is also used in forming density gradients to separate cells and subcellular components.
Recommended Storage: RT

Formamide Super Pure

packaging		Mfr. No
100 mℓ	AmberGlass	BP228-100

CH_3NO H360D
CAS: 75-12-7 P201, P308+P313
MW: 45.04
EINECS: 200-842-0

Assay	>=99.5%
Conductivity	<=100µmhos/cm
Copper	<=0.0001%
Freezing Point	1.0°-3.0°C
Iron	<=0.0005%
Lead	<=0.0005%
Optical Absorbance at 280nm	<0.05
Zinc	<=0.0005%

H2NCH:O; CH3NO; F.W. 45.04
Vacuum distilled and packaged under Nitrogen.
Applications: Super Pure Formamide has been pretreated with a mixed-bed resin so that it is ready for use in nucleic acid hybridization and sequencing.
Recommended Storage: 4°C

Glycerol
Molecular Biology

packaging		Mfr. No
1 ℓ	PolyBottle,EcoSafPak*	BP229-1
4 ℓ	PolyBottle,EcoSafPak*	BP229-4

$C_3H_8O_3$ EINECS: 200-289-5
CAS: 56-81-5
MW: 92.09

Assay	>=99.5%
Calcium (Ca)	<=5ppm
Color (APHA)	<=10
Density (at 20°C)	1.260 ±0.005g/mℓ
DNase	Not detected
Heavy Metals (Pb)	<=5ppm
Iron	<=5ppm
Magnesium (Mg)	<=1ppm
Protease	Not detected
RNase	Not detected
Zinc	<=2ppm

Applications: Glycerol is used for low-temperature storage of enzymes and bacterial cultures, purification of proteins, and as a component in electrophoresis loading buffers.
Recommended Storage: RT
EcoSafPak* is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.

JustPURE™ Gly-Gly
Cellular and Molecular Biology
White Powder

packaging		Mfr. No
50 g	Poly Bottle	BP2930-50

$C_4H_8N_2O_3$ EINECS: 209-127-8
CAS: 556-50-3 Diglycine, Glycyl-glycine
MW: 132.12

Ammonia	<=0.02%
Arsenic (As)	<=0.00001%
Bismuth (Bi)	<=0.0005%
Cadmium (Cd)	<=0.0005%
Calcium (Ca)	<=0.001%
Chloride	<=0.005%
Chromium (Cr)	<=0.0005%
Cobalt (Co)	<=0.0005%
Copper (Cu)	<=0.0005%
Iron (Fe)	<=0.0005%
Lead (Pb)	<=0.0005%
Lithium (Li)	<=0.0005%
Loss on Drying (at 110°C)	<=0.05
Magnesium (Mg)	<=0.0005%
Manganese (Mn)	<=0.0005%
Purity (by titration)	>=99.5%
Optical Absorbance at 260nm	<=0.075
Optical Absorbance at 280nm	<=0.072
pH at 20°C	Inclusive between 4.5-6.0
Sodium (Na)	<=0.005%
Solubility	Clear and colorless
Strontium (Sr)	<=0.0005%
Sulfate (SO_4)	<=0.005%

Applications: For high efficiency transfection of mammalian cells, gel electrophoresis of RNA, protein isolation applications, cell cultures and enzyme assays and bioanalytical methods, such as IEF, 2-D electrophoresis and SDS-PAGE.
Description: Ultra-pure zwitterionic buffers; Optimized for research in cellular and molecular biology; Minimal permeability to biological membranes; Low interference with biological reactions; pKa values mostly independent of temperature and concentration; High water solubility; Minimal absorption in spectral range 240 to 700nm.
Recommended storage: RT

HEPES Buffer
1M Solution, pH 7.3 — Molecular Biology

packaging		Mfr. No
100 mℓ	PolyBottle	**BP299-100**
500 mℓ	PolyBottle	**BP299-500**
1 ℓ	PolyBottle	**BP299-1**

$C_8H_{18}N_2O_4S$ EINECS: 230-907-9
CAS: 7365-45-9
MW: 238.31

Absorbance of a 0.1M Solution at 260nm	<=0.008
Absorbance of a 0.1M Solution at 280nm	<=0.004
DNase	Not detected
Molarity	1.0±0.05
pH (at 37°C)	7.3±0.1
Protease	Not detected
RNase	Not detected

Applications: HEPES is commonly used as a buffering agent.
Recommended Storage: RT

HEPES Sodium Salt
White Powder

packaging		Mfr. No
500 g	PolyBottle	**BP410-500**
1 kg	PolyBottle	**BP410-1**
2.5 kg	PolyBottle	**BP410-212**

$C_8H_{17}N_2NaO_4S$ EINECS: 278-169-7
CAS: 75277-39-3
MW: 260.27

Absorbance of a 0.1M Solution in Water (1cm) at 260nm	<=0.04
Absorbance of a 0.1M Solution in Water (1cm) at 280nm	<=0.02
Assay (dry weight basis)	>=99%
Endotoxin Assay (LAL)	<=0.06 EU/mℓ
Heavy Metals (Pb)	<=0.001%
Loss on Drying (at 110°C)	<=3.0%
pH of 1% Solution (at 25°C)	10.2 ±0.8
PKa (at 25°C)	7.55 ±0.1
Solubility (0.1M in water)	Clear, complete & colorless

Applications: HEPES Sodium Salt is used as a buffer for in vitro cell culture.
Recommended Storage: RT

HEPES
Fine White Crystals — Molecular Biology

packaging		Mfr. No
100 g	PolyBottle	**BP310-100**
500 g	PolyBottle	**BP310-500**
1 kg	PolyBottle	**BP310-1**
5 kg	PolyPail	**BP310-5**

$C_8H_{18}N_2O_4S$ EINECS: 230-907-9
CAS: 7365-45-9
MW: 238.3

Absorbance of a 0.1M Solution at 280nm	<=0.01
Assay	>=99%
DNase	Not detected
PKa (at 25°C)	7.5±0.2
Protease	Not detected
RNase	Not detected
Solubility (1.196g/100mℓ H2O)	Clear and colorless
TLC	Single spot

Applications: HEPES is commonly used as a buffering agent.
Recommended Storage: RT

Hyamine Hydroxide*
Clear Solution

packaging		Mfr. No
500 mℓ	AmberGlass	**BP2658-500**

$C_{28}H_{45}NO_3$ EINECS: 247-537-9
CAS: 26248-39-5
MW: 443.66

Recommended Storage: RT
Not on TSCA inventory: for R and D use only; not for manufacturing or commercial purposes.
UN 2924; DOT Class 3:Flammable Liquid

Hydrogen Peroxide
30% in Water

packaging		Mfr. No
500 g	PolyBottle	**BP2633-500**

H_2O_2 H318, H302
CAS: 7722-84-1 P280, P305+P351+P338,
MW: 34 P301+P312
EINECS: 231-765-0

Ammonium (NH_4)	<=5µg/g
Assay (as H_2O_2, %wt)	29.0-32.0%
Chloride (Cl)	<=3µg/g
Color (APHA)	<=10
Heavy Metals (Pb)	<=1µg/g
Iron	<=0.5µg/g
Nitrate	<=2µg/g
Phosphate (PO_4)	<=2µg/g
Residue after evaporation	<=0.002%
Sulfate (SO_4)	<=5µg/g
Titratable Acid	<=0.0006mEq/g

Applications: Hydrogen Peroxide is used as an antiseptic and for decomposition of inorganic and organic samples.
Recommended Storage: RT
UN 2014; DOT Class 5.1:Oxidizer

Imidazole — Molecular Biology

packaging		Mfr. No
50 g	olyBottle	**BP305-50**

$C_3H_4N_2$ P301+P330+P331, P280,
CAS: 288-32-4 P305+P351+P338, P310,
MW: 68.08 P281, P301+P312
H302, H314, H360D

Absorbance of a 0.1M Solution at 260nm	<=0.2
Assay	>=99%
DNase	Not detected
Melting Point	90°±2°C
PKa (at 25°C)	6.99±0.2
Protease	Not detected
RNase	Not detected

HNCH:CHN:CH; C3H4N2; F.W. 68.08
Applications: Imidazole is an excellent biological buffer with a usable pH range of 6.2 to 7.8.
Recommended Storage: RT
UN 3263; DOT Class 8:Corrosive

Isoamyl Alcohol

packaging		Mfr. No
500 mℓ	AmberGlass,EcoSafPak*	**BP1150-500**

$C_5H_{12}O$ H226, H335, H332, EUH066
CAS: 123-51-3 P261, P304+P340,
MW: 88.15 P210
EINECS: 204-633-5

Acidity (as Acetic Acid)	<=0.01%
Assay (GC)	>=99%
Carbonyl (as C=O)	<=0.1%
Color (APHA)	20
Peroxides	Not detected
Residue after evaporation	<=0.003%
Water	<=0.5%

EcoSafPak is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.*
Applications: A mixture of Chloroform and Isoamyl Alcohol (24:1 v/v) is used to remove proteins during nucleic acid extraction procedures. It may also be used to extract Ethidium Bromide from nucleic acids.
Recommended storage: RT

Magnesium Acetate Tetrahydrate

packaging		Mfr. No
500 g	AmberGlass	**BP215-500**

$C_4H_6O_4Mg.4H_2O$
CAS: 16674-78-5
MW: 214.46

Assay	>=99.0%
Calcium (Ca)	<=0.01%
Chloride (Cl)	<=0.001%
Heavy Metals (as Pb) (ACS method)	<=5ppm
Iron	<=5ppm
Nitrogen Compounds	<=0.001%
pH of 5% Solution (at 25°C)	6.5-8.5
Sulfate (SO_4)	<=0.005%
Water-insoluble Matter	<=0.005%

Applications: Magnesium Acetate is suitable for use in the preparation of buffer solutions and is required as a stabilizer for all stages of bacteriophage purification.
Recommended Storage: RT

Magnesium Chloride Hexahydrate

packaging		Mfr. No
500 g	PolyBottle	**BP214-500**

$Cl_2Mg.6H_2O$ H335, H319
CAS: 7791-18-6 P261, P280,
MW: 203.31 P305+P351+P338

Ammonium (NH_4)	<=0.002%
Assay	>=99.0%
Calcium (Ca)	<=0.01%
Iron	<=0.0005%
Lead	<=5ppm
Nitrate	<=0.001%
Phosphate (PO_4)	<=5ppm
Sulfate (SO_4)	<=0.002%
Water-insoluble Matter	<=0.005%

Applications: Magnesium Chloride is suitable for use in the preparation of buffer solutions.
Recommended Storage: RT

Magnesium Sulfate Heptahydrate

packaging		Mfr. No
1 kg	AmberGlass	**BP213-1**

$MgO_4S.7H_2O$
CAS: 10034-99-8
MW: 246.48

Ammonium (NH_4)	<=0.002%
Assay	98-102.0%
Calcium (Ca)	<=0.02%
Chloride (Cl)	<=5ppm
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.005%
Iron	<=5ppm
Manganese	<=5ppm
Nitrate	<=0.002%
pH of 0.5% solution (at 25°C)	5.0-8.2
Potassium	<=0.005%
Sodium	<=0.005%
Strontium	<=0.005%

Applications: Magnesium Sulfate is suitable for use in the preparation of buffer solutions.
Recommended Storage: RT

Manganese Chloride 1.0M Solution — Molecular Biology
Clear, Light-pink Solution

packaging		Mfr. No
10 mℓ	PolyTube	**BP541-1**
100 mℓ	PolyBottle	**BP541-100**

Cl_2 Mn H302, H373
CAS: 7773-01-5 P260, P301+P312
MW: 125.84

Concentration	1.0M±0.01
DNase	Not detected
Heavy Metals (Pb)	<=5.0ppm
Protease	Not detected
RNase	Not detected

Applications: Manganese Chloride is used for dC and dG tailing of DNA.
0.2-micron filtered solution in 18-megohm water.
Recommended Storage: RT

JustPURE™ MES Hydrate
Cellular and Molecular Biology
White Powder

packaging		Mfr. No
250 g	Poly Bottle	BP2920-250

$C_6H_{13}NO_4S.xH_2O$
CAS: 4432-31-9
MW: 195.23
EINECS: 224-632-3

H315, H319, H335
P280, P305+P351+P338, P261, P302+P352, P264, P271

Arsenic (As)	<=0.0001%
Bismuth (Bi)	<=0.0005%
Cadmium (Cd)	<=0.0005%
Calcium (Ca)	<=0.002%
Chloride	<=0.005%
Chromium (Cr)	<=0.0005%
Cobalt (Co)	<=0.0005%
Copper (Cu)	<=0.0005%
Iron (Fe)	<=0.0005%
Lead (Pb)	<=0.0005%
Lithium (Li)	<=0.0005%
Magnesium (Mg)	<=0.0005%
Purity (by titration)	>=99.5%
Optical Absorbance at 260nm	<=0.025
Optical Absorbance at 280nm	<=0.020
pH at 20°C	Inclusive between 2.5-4.0
Sodium (Na)	<=0.005%
Strontium (Sr)	<=0.005%

Applications: For high efficiency transfection of mammalian cells, gel electrophoresis of RNA, protein isolation applications, cell cultures and enzyme assays and bioanalytical methods, such as IEF, 2-D electrophoresis and SDS-PAGE.
Description: Ultra-pure zwitterionic buffers; Optimized for research in cellular and molecular biology; Minimal permeability to biological membranes; Low interference with biological reactions; pKa values mostly independent of temperature and concentration; High water solubility; Minimal absorption in spectral range 240 to 700nm.
Recommended storage: RT

Molecular Sieves, Grade 513
Type 4A; 4-8 Mesh

packaging		Mfr. No
500 g	PolyBottle	BP2634-500

CAS: 70955-01-0

Mesh Size	To pass test

Applications: Used for dehydration of gases.
Effective pore size:4Ã…
Base:Alumina-Silicate
Cation:Sodium [1344-28-1 (Aluminum Oxide)] ; [14808-60-7 (Quartz)]
Recommended Storage: RT

Molecular sieves, Grade 514 (Type 4A; 8-12 Mesh)
Type 4A; 8-12 Mesh

packaging		Mfr. No
500 g	PolyBottle	BP2631-500

CAS: 70955-01-0

Mesh Size	To pass test

Applications: Used for dehydration of liquids.
Effective pore size:4Ã…
Base:Alumina-Silicate
Cation:Sodium [1344-28-1 (Aluminum Oxide)] ; [14808-60-7 (Quartz)]
Recommended Storage: RT

MOPS
Molecular Biology
Fine White Crystals

packaging		Mfr. No
100 g	PolyBottle	BP308-100
500 g	PolyBottle	BP308-500

$C_7H_{15}NO_4S$
CAS: 1132-61-2
MW: 209.26
EINECS: 214-478-5

H315, H335, H319
P261, P302+P352, P280, P305+P351+P338

Assay	>=97%
DNase	Not detected
PKa (at 25°C)	7.2±0.2
Protease	Not detected
RNase	Not detected

Applications: This biological buffer has a usable pH range of 6.5 to 7.9.
Recommended Storage: RT

CellPURE™ MOPS Sodium Salt
Cell Culture-Tested
White Crystalline powder

packaging		Mfr. No
25 g	Poly Bottle	BP2946-25

$C_7H_{14}NNaO_4S$
CAS: 71119-22-7
MW: 231.25

Absorbance 33% w/w at 290nM	<=0.05
Cell culture test	To pass test
DNase	Not detected
Endotoxin	<=0.1 EU/mg
Heavy metals (as Pb)	<=5 ppm
Infrared scan	Conforms to ref.
Purity (by titration)	>=99.5%
Nickase	Not detected
Protease	Not detected
RNase	Not detected
Solubility	Clear and colorless
Standard plate count	<=100CFU/gm

Applications: Cell cultivation, isolation of cells, enzyme assays, and other biochemical applications
Description: Cell culture tested; Analyzed for the absence of nucleases and proteases; Tested for endotoxin and bioburden levels; pKa values mostly independent of temperature and concentration; High water solubility; Minimal permeability to biological membranes; Manufactured under strict quality control guidelines to ensure performance and reliability.
Recommended storage: RT

JustPURE™ MOPS Sodium Salt
Cellular and Molecular Biology
White Powder

packaging		Mfr. No
100 g	Poly Bottle	BP2926-100

$C_7H_{14}NNaO_4S$
CAS: 71119-22-7
MW: 231.25

Ammonia	<=0.05%
Calcium (Ca)	<=0.001%
Chloride	<=0.05%
Copper (Cu)	<=0.0005%
Iron (Fe)	<=0.0005%
Lead (Pb)	<=0.001%
Magnesium (Mg)	<=0.0005%
Purity (by titration)	>=99.5%
Optical Absorbance at 260nm	<=0.1
Optical Absorbance at 280nm	<=0.1
pH at 20°C	Inclusive between 10.0-12.0
Phosphorus	<=0.005%
Solubility	Clear and colorless
Sulfate (SO_4)	<=0.05%
Water (Karl Fischer)	<=5%

Applications: For high efficiency transfection of mammalian cells, gel electrophoresis of RNA, protein isolation applications, cell cultures and enzyme assays and bioanalytical methods, such as IEF, 2-D electrophoresis and SDS-PAGE.
Description: Ultra-pure zwitterionic buffers; Optimized for research in cellular and molecular biology; Minimal permeability to biological membranes; Low interference with biological reactions; pKa values mostly independent of temperature and concentration; High water solubility; Minimal absorption in spectral range 240 to 700nm.
Recommended storage: RT

Heptane Sequencing
Peroxide-free

packaging		Mfr. No
500 mℓ	AmberGlass,EcoSafPak*	BP1115-500

C_7H_{16}
CAS: 142-82-5
MW: 100.2
EINECS: 205-563-8
H225, H315, H336, H304,

H400, H410
P261, P301+P310, P331, P273, P302+P352, P210

Aldehyde (HCHO)	Not detected
Assay	99.0%
Color (APHA)	<=10
Fluorescence Background (as Quinine Sulfate)	To pass test
Optical Absorbance at 200nm	<=0.75
Optical Absorbance at 215nm	<=0.20
Optical Absorbance at 254nm	<=0.014
Peroxides	Not detected
Refractive Index (at 25°C)	1.3845-1.3865
Residue after evaporation	<=5ppm
Water	<=0.02%

EcoSafPak is an environmentally friendly packaging system made of 100% recyclable material by an SFI certified supplier.*
Applications: Solvent for other organics and is used as a carrier in chromatography.
Recommended storage: RT

n-Octyl-β-D-Glucopyranoside
White Crystalline Powder

packaging		Mfr. No
500 mg	PolyMicroTube	BP585-500
1 g	PolyMicroTube	BP585-1
5 g	AmberPolyBottle	BP585-5
25 g	AmberPolyBottle	BP585-25

$C_{14}H_{28}O_6$ EINECS: 249-887-8
CAS: 29836-26-8
MW: 292.36

Assay (GC)	>=98.0%
Specific Rotation α $^{20}_D$ (c=1, anhydrous MeOH)	-32.0° to -28.0°

Applications: n-Octyl-β-D-Glucopyranoside is a highly purified, nonionic detergent.
Recommended Storage: -20°C
Not on TSCA inventory: for R and D use only; not for manufacturing or commercial purposes.

Phosphate Buffered Saline Tablets

packaging	Mfr. No
100 tablets g Poly Bottle	BP2944-100

CAS: [Sodium chloride: 7647-14-5; Sodium phosphate dibasic: 7558-79-4; Dihydrogen potassium phosphate: 7778-77-0; Potassium chloride: 7447-40-7]

Form	Round tablet
pH at 25°C	Inclusive between 7.2-7.6
Total weight	Inclusive between 1814-2005mg/tab

Applications: Specifically developed for use in immunoassay procedures. The need to weigh and mix individual components is eliminated.
Description: One tablet dissolved in 200mℓ water yields 0.01M phosphate buffer, 0.0027M KCl, and 0.137M NaCl, pH 7.4 at 25°C
Recommended storage: RT

Phosphate Buffered Saline with Tween 20*
White Powder

packaging		Mfr. No
10PK	Foil Pouches	BP2938-10

CAS: [Sodium chloride: 7647-14-5; Sodium phosphate dibasic: 7558-79-4; Tween 20: 9005-64-5; Di-hydrogen potassium phosphate: 7778-77-0; Potassium chloride: 7447-40-7]
PBST

pH at 25°C	Inclusive between 7.2-7.6
Total weight	Inclusive between 9.55-10.55grams

Applications: Used as a wash buffer and diluent for ELISA and Western blot.
Description: Dissolve the pre-weighed contents of one pouch in 1ℓ of water. Formulation per liter: 0.01M phosphate buffered saline, 0.138 M NaCl, 0.0027 M KCl, and 0.05% Tween 20, pH 7.4 at 25°C
Recommended storage: RT

Phosphate Buffered 10X Powder Concentrate
White Granular Powder

packaging		Mfr. No
2 blocks	FoilPack	**BP665-1**

Chloride Concentration of a 1X Solution	0.140±0.004 moles/ℓ
Conductivity of a 1X Solution	14.000 to 17.800µmhos/cm
DNase	Not detected
pH of 10X solution (at 25°C)	6.7-6.9
pH of 1X solution (at 25°C)	7.3-7.5
Protease	Not detected
RNase	Not detected
Solubility (1% in water)	To pass test

Applications: This product provides a convenient way to make a 10X concentrated solution of standard Phosphate Buffer; each pack contains 98.8g for reconstitution in 1ℓ of water.
Components: Sodium Chloride (81%), Sodium Phosphate Dibasic (14%), Potassium Phosphate Monobasic (3.0%), and Potassium Chloride (2%). [7647-14-5 (Sodium Chloride)] ; [7558-79-4 (Sodium Phosphate Dibasic)] ; [7778-77-0 (Potassium Phosphate Monobasic)] ; [7447-40-7 (Potassium Chloride)]
Recommended Storage: RT

Phosphate Buffered 1X Powder Concentrate
White Granular Powder

packaging		Mfr. No
98.9 g	PolyBottle	**BP661-10**
492 g	PolyBottle	**BP661-50**

Chloride Concentration of a 1X Solution	0.140±0.004 moles/ℓ
Conductivity of a 1X Solution	14.000-17.800µmhos
DNase	Not detected
pH of 1X solution (at 25°C)	7.3-7.5
Protease	Not detected
RNase	Not detected
Solubility (1% in water)	To pass test

Applications: This product provides a convenient way to make large volumes of standard 1X Phosphate Buffer; each bottle contains 98.9g or 492g for reconstitution in 10ℓ or 50ℓ of water, respectively.
Components: Sodium Chloride (81%), Sodium Phosphate Dibasic (14%), Potassium Phosphate Monobasic (3.0%), and Potassium Chloride (2%). [7647-14-5 (Sodium Chloride)] ; [7558-79-4 (Sodium Phosphate Dibasic)] ; [7778-77-0 (Potassium Phosphate Monobasic)] ; [7447-40-7 (Potassium Chloride)]
Recommended Storage: RT

CellPURE™ Phosphate Buffered Saline Cell Culture-Tested
10X Solution

packaging		Mfr. No
4 ℓ	PolyPac*	**BP2940-4**

CAS: [Water: 7732-18-5; Sodium chloride: 7647-14-5; Sodium phosphate dibasic: 7558-79-4; Dihydrogen potassium phosphate: 7778-77-0; Potassium chloride: 7447-40-7]
PBS

Bioburden	<=16.0 CFU/mℓ
Cell culture salt test	To pass test
DNase	Not detected
Endotoxin	<=1.0 EU/mℓ
Heavy metals (as Pb)	<=5 ppm
Nickase	Not detected
pH at 25°C of a 1:10 dilution	Inclusive between 7.2-7.6
Protease	Not detected
RNase	Not detected

Applications: CellPURE Phosphate Buffered Saline provides an optimal formulation for cell biology experiments in which the osmolarity of cells must be maintained. PBS can also be used in biochemistry studies for maintaining proteins in a certain pH range. Nuclease- and protease-free.
Description: When diluted to a 1X concentration using water, this product yields 0.01M phosphate buffer and 0.154M NaCl, pH 7.4 at 25°C.
Recommended storage: RT

Periodic Acid
White to Pale-yellow Crystals or White Powder

packaging		Mfr. No
25 g	PolyBottle	**BP581-25**
100 g	PolyBottle	**BP581-100**

H_5IO_6
CAS: 10450-60-9
MW: 227.94
EINECS: 233-937-0
H272, H314
P301+P330+P331, P280, P305+P351+P338, P310, P210

Assay	>=99%
Heavy Metals (Pb)	<=0.005%
Insoluble matter	<=0.1%
Iron	<=0.003%
Other Halogens (as Cl)	<=0.05%
Residue after ignition	<=0.05%
Sulfate (SO_4)	<=0.05%

Applications: Periodic Acid is used to decompose organic compounds.
Recommended Storage: RT
UN 3085; DOT Class 5.1:Oxidizer

Phenol
Crystallized

packaging		Mfr. No
100 g	AmberGlass/PoisonPack	**BP226-100**
500 g	AmberGlass/PoisonPack	**BP226-500**

C_6H_6O
CAS: 108-95-2
MW: 94.11
EINECS: 203-632-7
H311, H331, H341, H314, H373, H301
P280, P302+P350, P301+P330+P331, P305+P351+P338, P304+P340, P301+P310, P260

Assay	>=99.0%
Heavy Metals (Pb)	<=0.01%
Melting Point	40°-41°C
Saturation of Phenol with Tris	To pass test
Water	<=0.5%

Applications: Phenol is used in nucleic acid purification procedures.
Recommended Storage: 4°C
UN 1671; DOT Class 6.1:Poison

PIPES, Sesquisodium Salt
Fine White Crystals — Molecular Biology

packaging		Mfr. No
100 g	PolyBottle	**BP304-100**
500 g	PolyBottle	**BP304-500**

$C_{16}H_{33}N_4Na_3O_{12}S_4$
CAS: 100037-69-2
MW: 335.34

Assay	>=95%
DNase	Not detected
PKa (at 25°C)	6.76 ±0.2
RNase	Not detected

Applications: This biological buffer has a usable pH range of 6.1 to 7.5.
Recommended Storage: RT
Not on TSCA inventory: for R and D use only; not for manufacturing or commercial purposes.

Potassium Phosphate Dibasic
Fine White Crystalline Powder

packaging		Mfr. No
500 g	PolyBottle	**BP363-500**
1 kg	PolyBottle	**BP363-1**

HK_2O_4P
CAS: 7758-11-4
MW: 174.18

Assay	>=98.0% Minimum
Chloride (Cl)	<=0.003%
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.010%
Iron	<=0.001%
Loss on Drying (at 105°C)	<=1.0%
Nitrogen Compounds (as N)	<=0.001%
pH of 5% Solution (at 25°C)	8.5-9.6
Sodium	<=0.05%
Sulfate (SO_4)	<=0.005%

Applications: This potassium salt is used in buffers for molecular biology and cell culture applications.
Recommended Storage: RT

Potassium Phosphate Monobasic
White Crystals

packaging		Mfr. No
500 g	AmberGlass	**BP362-500**
1 kg	AmberGlass	**BP362-1**

H_2KO_4P
CAS: 7778-77-0
MW: 136.09

Assay	>=99.0%
Chloride (Cl)	<=0.001%
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.01%
Iron	<=0.002%
Loss on Drying (at 105°C)	<=0.20%
pH of 5% Solution (at 25°C)	4.1-4.5
Sodium	<=0.005%
Sulfate (SO_4)	<=0.003%

Applications: This potassium salt is used in buffers for molecular biology and cell culture applications.
Recommended Storage: RT

Sodium Azide
White Granular Powder

packaging		Mfr. No
500 g	AmberGlass/PoisonPack	**BP922I-500**

N_3Na
CAS: 26628-22-8
MW: 65.01
EINECS: 247-852-1
H300, H410, EUH032
P301+P310, P280, P302+P350, P273

Assay	>=99%

Applications: Sodium Azide is used as a preservative in biological solutions.
Recommended Storage: RT
UN 1687; DOT Class 6.1:Poison

Sodium Bicarbonate
Fine White Powder

packaging		Mfr. No
500 g	PolyBottle	**BP328-500**
1 kg	PolyBottle	**BP328-1**

$CHNaO_3$
CAS: 144-55-8
MW: 84.01
EINECS: 205-633-8

Ammonium (NH_4)	<=5ppm
Assay	99.7-100.3%
Calcium (Ca)	<=0.02%
Chloride (Cl)	<=0.003%
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.015%
Iron	<=0.001%
Magnesium (Mg)	<=0.005%
Phosphate (PO_4)	<=0.001%
Potassium	<=0.005%
Sulfur compounds (as SO_4)	<=0.003%

Applications: This sodium salt is used in buffers for molecular biology and cell culture applications.
Recommended Storage: RT

Sodium Carbonate
White Crystalline Powder

packaging		Mfr. No
1 kg	PolyBottle	BP357-1

CNa_2O_3 H319
CAS: 497-19-8 P280, P305+P351+P338
MW: 105.99
EINECS: 207-838-8

Assay	>=99.5%
Calcium (Ca)	<=0.03%
Chloride (Cl)	<=0.001%
Heavy Metals (Pb)	0.0005%
Insoluble matter	<=0.01%
Iron	0.0005%
Loss on Heating (at 285°C)	<=1.0%
Magnesium (Mg)	<=0.005%
Phosphate (PO_4)	<=0.001%
Potassium	0.005%
Silica	<=0.005%
Sulfur Compounds (as SO_4)	<=0.003%

Applications: This sodium salt is used in buffers for molecular biology and cell culture applications.
Recommended Storage: RT

Sodium Chloride

packaging		Mfr. No
1 kg	PolyBottle	BP358-1
2.5 kg	PolyBottle	BP358-212
10 kg	PolyPail	BP358-10

ClNa EINECS: 231-598-3
CAS: 7647-14-5
MW: 58.44

Calcium (Ca)	<=0.005%
Heavy Metals (Pb)	0.0005%
Iodide	<=0.002%
Iron	<=0.0002%
Magnesium (Mg)	<=0.005%
Phosphate (PO_4)	0.0005%
Sulfate (SO_4)	<=0.004%

Applications: Sodium Chloride is a main component of many electrophoresis and molecular biology buffers and media.
Recommended Storage: RT

Sodium Citrate Dihydrate
Small, Colorless Granules

packaging		Mfr. No
500 g	PolyBottle	BP327-500
1 kg	PolyBottle	BP327-1

$C_6H_5Na_3O_7.2H_2O$
CAS: 6132-04-3
MW: 294.09

Ammonia	<=0.003%
Assay	99.0-101.0%
Calcium (Ca)	<=0.005%
Chloride (Cl)	<=0.003%
Free Acid (as Citric Acid)	<=0.15%
Free Alkali	None
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.005%
Iron	<=0.001%
pH of 5% Solution (at 25°C)	7.0-9.0
Sulfate (SO_4)	<=0.005%

Applications: Sodium Citrate is used primarily in the preparation of SSC buffer used in Southern transfers.
Recommended Storage: RT

Sodium Hydroxide
White Pellets

packaging		Mfr. No
500 g	PolyBottle	BP359-500
2.5 kg	PolyBottle	BP359-212

HNaO H314
CAS: 1310-73-2 P280, P301+P330+P331,
MW: 40 P305+P351+P338, P302+P352
EINECS: 215-185-5

Assay	>=97%
Calcium (Ca)	<=0.005%
Chloride (Cl)	<=0.005%
Copper	0.001%
Heavy Metals (as Ag)	0.002%
Iron	<=0.001%
Magnesium (Mg)	0.002%
Mercury	<=0.1ppm
Nickel	<=0.001%
Nitrogen Compounds (as N)	<=0.001%
Phosphate (PO_4)	0.001%
Potassium	<=0.02%
Sodium carbonate	<=1.0%
Sulfate (SO_4)	<=0.003%

Applications: Sodium Hydroxide is used to adjust the pH of buffers for molecular biology and cell culture applications.
Recommended Storage: RT
UN 1823; DOT Class 8:Corrosive

Sodium Iodide
White Crystals — Molecular Biology

packaging		Mfr. No
100 g	AmberGlass	BP323-100

INa EINECS: 231-679-3
CAS: 7681-82-5
MW: 149.89

Assay	>=99%
Chloride and Bromide (as Cl)	<=0.01%
Copper	<=3ppm
DNase	Not detected
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.005%
Iodate	<=0.003%
Iron	<=3ppm
Phosphate (PO_4)	<=0.001%
RNase	Not detected
Sulfate (SO_4)	<=0.005%

Applications: This sodium salt is used in buffers for molecular biology and cell culture applications.
Recommended Storage: RT

Sodium Nitrate
Colorless Crystals

packaging		Mfr. No
500 g	PolyBottle	BP360-500

$NNaO_3$ P261, P301+P312,
CAS: 7631-99-4 P302+P352, P280,
MW: 84.99 P305+P351+P338, P210
EINECS: 231-554-3
H272, H315, H335, H302, H319

Assay	>=99%
Calcium (Ca)	<=0.005%
Chloride (Cl)	<=0.001%
Heavy Metals (Pb)	<=5ppm
Insoluble matter	<=0.005%
Iodate	<=5ppm
Iron	<=3ppm
Magnesium (Mg)	<=0.002%
Nitrite	<=0.001%
pH of 5% Solution (at 25°C)	5.5-8.3
Phosphate (PO_4)	5ppm
Sulfate (SO_4)	<=0.003%

Applications: This sodium salt is used in buffers for molecular biology and cell culture applications.
UN 1498; DOT Class 5.1:Oxidizer

Sodium Phosphate Dibasic Anhydrous
White Granules or Powder

packaging		Mfr. No
500 g	PolyBottle	BP332-500
1 kg	PolyBottle	BP332-1

HNa_2O_4P EINECS: 231-448-7
CAS: 7558-79-4
MW: 141.96

Assay	>=99.0%
Chloride (Cl)	<=0.002%
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.010%
Iron	<=0.001%
Loss on Drying (at 105°C)	<=0.20%
pH of 5% Solution (at 25°C)	8.7-9.3
Sulfate (SO_4)	<=0.005%

Applications: This buffer component is commonly used in tissue culture and molecular biology applications.
Recommended Storage: RT

Sodium Phosphate Dibasic Heptahydrate
Colorless-to-white Crystals

packaging		Mfr. No
500 g	AmberGlass	BP331-500
1 kg	AmberGlass	BP331-1

$HNa_2O_4P.7H_2O$
CAS: 7782-85-6
MW: 268.07

Assay	98.0-102.0%
Chloride (Cl)	<=0.001%
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.005%
Iron	<=0.001%
pH of 5% Solution (at 25°C)	8.7-9.3
Sulfate (SO_4)	<=0.005%

Applications: This buffer component is commonly used in tissue culture and molecular biology applications.
Recommended Storage: RT

Sodium Phosphate Monobasic Anhydrous
Colorless-to-white Crystals

packaging		Mfr. No
500 g	AmberGlass	BP329-500
1 kg	AmberGlass	BP329-1

H_2NaPO_4 EINECS: 231-449-2
CAS: 7558-80-7
MW: 119.98

Assay	>=99%
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.03%
Moisture	0.5%
pH of 1M Solution (at 25°C)	4.0-6.0

Applications: Sodium Phosphate is commonly used in tissue culture and molecular biology applications.
Recommended Storage: RT

Sodium Phosphate Monobasic Monohydrate
Colorless-to-white Crystals

packaging		Mfr. No
500 g	AmberGlass	BP330-500
1 kg	AmberGlass	BP330-1

$H_2NaO_4P.H_2O$
CAS: 10049-21-5
MW: 137.99

Assay	98.0-102.0%
Calcium (Ca)	<=0.005%
Chloride (Cl)	<=5ppm
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.01%
Iron	<=0.001%
pH of 5% Solution (at 25°C)	4.1-4.5
Potassium	0.01%
Sulfate (SO_4)	<=0.003%

Applications: Sodium Phosphate is commonly used in tissue culture and molecular biology applications.
Recommended Storage: RT

Sodium Tetraborate Decahydrate
White Crystals — Molecular Biology

packaging		Mfr. No
500 g	AmberGlass	BP175-500

$B_4Na_2O_7.10H_2O$ H360FD
CAS: 1303-96-4 P201, P308+P313
MW: 381.36

Assay	99.5-105.0%
Calcium (Ca)	<=0.005%
Chloride (Cl)	<=0.001%
DNase	Not detected
Heavy Metals (Pb)	<=0.001%
Insoluble matter	<=0.005%
Iron	<=5ppm
pH of 0.01M Solution (at 25°C)	9.15-9.20
Phosphate (PO_4)	<=0.001%
RNase	Not detected
Sulfate (SO_4)	<=0.005%

Applications: Sodium Borate can be used in the preparation of TBE electrophoresis buffer.
Recommended Storage: RT

STET Buffer, 1X Solution
pH 8.0

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2480-100**
1 ℓ	PolyBottle	**BP2480-1**

DNase	Not detected
pH (at 25°C)	7.9-8.1
Protease	Not detected
RNase	Not detected

Applications: STET buffer is used in biomolecular procedures.
Saline/Tris/EDTA/Triton* X-100 Solution 1X solution contains 10mM Tris-HCl, 1mM EDTA, 100mM NaCl, and 5% Triton* X-100 (v/v).
Autoclaved.
[77-86-1 (Tris Base)] ; [60-00-4 (EDTA)] ; [7647-01-0 (HCl)] ; [7647-14-5 (NaCl)] ; [9002-93-1 (Triton* X-100)]
Recommended Storage: RT
Filtered through a 5-micron filter.

Sudan Black

packaging		Mfr. No
10 g	AmberGlass	**BP109-10**

$C_{29}H_{24}N_6$ EINECS: 224-087-1
CAS: 4197-25-5
MW: 456.54

$E^{1\%}_{1cm}$	>=600ℓ g-1cm-1
Lambda Max. in Acetone	600nm ±2nm
Loss on Drying (at 105°C)	<=5%
Solubility	To pass test

Applications: Used to stain chromosomes and lipoproteins, as well as fat in bacteria.
Recommended storage: RT
C.I. 26150

TES
White Crystals

packaging		Mfr. No
100 g	AmberGlass	**BP309-100**

$C_6H_{15}NO_6S$ H335, H315, H319
CAS: 7365-44-8 P261, P302+P352, P280,
MW: 229.25 P305+P351+P338
EINECS: 230-906-3

Assay	>=98%
Melting Point	219° ±5°C
PKa (at 25°C)	7.4±0.2

Applications: This biological buffer has a usable pH range of 6.8 to 8.2.
Recommended Storage: RT

Trichloroacetic Acid
Flakes or Crystals

packaging		Mfr. No
250 g	AmberGlass	**BP555-250**
500 g	AmberGlass	**BP555-500**
1 kg	PolyBottle	**BP555-1**

$C_2HCl_3O_2$ P301+P330+P331, P280,
CAS: 76-03-9 P305+P351+P338, P310,
MW: 163.39 P261, P273
EINECS: 200-927-2
H314, H335, H410

Assay	>=99.0%
Chloride (Cl)	<=0.002%
Heavy Metals (Pb)	<=0.002%
Iron	<=0.001%
Nitrate	<=0.002%
Phosphate (PO_4)	<=5ppm
Residue after ignition	0.03%
Substances Darkened by Sulfuric Acid	To pass test
Sulfate (SO_4)	<=0.02%

Applications: TCA is used to precipitate proteins and nucleic acids from solution.
Recommended Storage: RT
UN 1839; DOT Class 8:Corrosive

TAPS (Free Acid)
White Powder

packaging		Mfr. No
25 g	PolyBottle	**BP551-25**
100 g	PolyBottle	**BP551-100**
500 g	PolyBottle	**BP551-500**

$C_7H_{17}NO_6S$ EINECS: 249-954-1
CAS: 29915-38-6
MW: 243.27

Assay (purity	>=99%
DNase	Not detected
Heavy Metals (Pb)	<=5ppm
Moisture	1%
Protease	Not detected
RNase	Not detected

Applications: This biological buffer has a usable pH range of 7.7 to 9.1.
Recommended Storage: RT

Tricine
White Crystals

packaging		Mfr. No
100 g	PolyBottle	**BP315-100**

$C_6H_{13}NO_5$ H315, H319, H335
CAS: 5704-04-1 P261, P302+P352, P280,
MW: 179.17 P305+P351+P338
EINECS: 227-193-6

Assa	98%
Assay	>=98%
Melting Point	184°±2°C
PKa (at 25°C)	8.10±0.2

Applications: This biological buffer has a usable pH range of 7.4 to 8.8.
Recommended Storage: RT

Tris Base
White Crystals or Crystalline Powder

packaging		Mfr. No
1 kg	PolyBottle	**BP154-1**

$C_4H_{11}NO_3$ H335, H315, H319
CAS: 77-86-1 P280, P305+P351+P338,
MW: 121.14 P261, P302+P352
EINECS: 201-064-4

Absorbance of a 2M Solution at 280nm	<=0.05
Arsenic.	<=5ppm
Assay (corrected for H2O)	>=99.9%
Copper	<=1ppm
DNase	Not detected
Electrophoresis	To pass test
Iron	<=2ppm
Lead	<=1ppm
Magnesium (Mg)	<=10ppm
pH of 0.05M Solution (at 25°C)	10.3-10.5
Protease	Not detected
RNase	Not detected
Water	<=0.5%

Applications: This ultrapure, triple-crystallized buffer component is alcohol-free, so it is compatible with sensitive molecular biology, tissue culture, and electrophoresis methods.
Recommended Storage: RT

Tris Base — Molecular Biology
White Crystals or Crystalline Powder

packaging		Mfr. No
500 g	PolyBottle	**BP152-500**
1 kg	PolyBottle	**BP152-1**
5 kg	PolyPail	**BP152-5**
10 kg	PolyPail	**BP152-10**
25 kg	FiberDrum	**BP152-25**

$C_4H_{11}NO_3$ H335, H315, H319
CAS: 77-86-1 P280, P305+P351+P338,
MW: 121.14 P261, P302+P352
EINECS: 201-064-4

Absorbance of a 1M Solution at 280nm	<=0.05
Arsenic	<=5ppm
Assay (corrected for H2O)	99.8%
Copper	<=1ppm
DNase	Not detected
Electrophoresis	To pass test
Iron	<=2ppm
Lead	1ppm
Magnesium (Mg)	<=10ppm
pH of 0.05M Solution (at 25°C)	10.3-10.5
Protease	Not detected
RNase	Not detected
Water	<=2%

Applications: Tris Base is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.
Recommended Storage: RT

Tris Buffered Saline — Molecular Biology
10X Solution

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2471-100**
500 mℓ	PolyBottle	**BP2471-500**
1 ℓ	PolyBottle	**BP2471-1**

H315, H319
P305+P351+P338, P280, P264,
P302+P352

DNase	Not detected
pH (1X solution) (at 25°C)	7.3-7.5
Protease	Not detected
RNase	Not detected

Applications: Tris Buffered Saline (TBS) is used in biochemical and molecular biology applications.
Filtered and autoclaved.
Components: 10X solution contains 1.37M Sodium Chloride, 0.027M Potassium Chloride, and 0.25M Tris/Tris-HCl.
pH:pH 7.4 [77-86-1 (Tris)] ; [1185-53-1 (Tris Hydrochloride)] ; [7447-40-7 (Potassium Chloride)] ; [7647-14-5 (Sodium Chloride)]
Recommended Storage: RT

Tris Buffered Saline — Molecular Biology
1X Solution, pH 7.4

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2472-100**
1 ℓ	PolyBottle	**BP2472-1**

H315, H319
P305+P351+P338, P280, P264,
P302+P352

DNase	Not detected
pH (at 25°C)	7.3-7.5
Protease	Not detected
RNase	Not detected

Applications: Tris Buffered Saline (TBS) is used in biochemical and molecular biology applications.
1X solution contains 0.137M Sodium Chloride, 0.0027M Potassium Chloride and 0.025M Tris/Tris-HCl.
Filtered and autoclaved.
[77-86-1 (Tris)] ; [1185-53-1 (Tris Hydrochloride)] ; [7447-40-7 (Potassium Chloride)] ; [7647-14-5 (Sodium Chloride)]
Recommended Storage: RT

Tris Hydrochloride
Small White Flakes — Molecular Biology

packaging		Mfr. No
500 g	PolyBottle	**BP153-500**
1 kg	PolyBottle	**BP153-1**

$C_4H_{11}NO_3.HCl$
CAS: 1185-53-1
MW: 157.6
EINECS: 214-684-5

H335, H319, H315
P261, P302+P352, P280, P305+P351+P338

Absorbance of a 1M Solution at 280nm	<=0.05
Arsenic	<=10ppm
Assay	>=99%
Barium	<=1ppm
Calcium (Ca)	<=10ppm
Copper	<=1ppm
DNase	Not detected
Electrophoresis	To pass test
Iron	<=2ppm
Lead	<=5ppm
Magnesium (Mg)	10ppm
Manganese	<=1ppm
Melting Point	52°±2°C
Protease	Not detected
RNase	Not detected

Applications: Tris Hydrochloride is a buffering medium for electrophoresis, molecular biology, and cell culture applications. It may be combined with Tris Base to simplify Tris buffer preparation.
Recommended Storage: RT

Tris-EDTA (TE), 10X Solution
pH 7.4 — Molecular Biology

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2477-100**
500 mℓ	PolyBottle	**BP2477-500**
1 ℓ	PolyBottle	**BP2477-1**

CAS: 38641-82-6

DNase	Not detected
pH (1X solution) (at 25°C)	7.3-7.5
Protease	Not detected
RNase	Not detected

Applications: Tris-EDTA (TE) is used for suspending nucleic acid samples.
10X solution contains 100mM Tris and 10mM EDTA.
[60-00-4 (EDTA)] ; [77-86-1 (Tris)]
Recommended Storage: RT
Filtered through a 5-micron filter and autoclaved.

Tris-EDTA (TE), 10X Solution
pH 7.6 — Molecular Biology

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2475-100**
500 mℓ	PolyBottle	**BP2475-500**
1 ℓ	PolyBottle	**BP2475-1**

CAS: 38641-82-6

DNase	Not detected
pH (1X solution) (at 25°C)	.5-7.7
Protease	Not detected
RNase	Not detected

Applications: Tris-EDTA (TE) is used for suspending nucleic acid samples.
10X solution contains 100mM Tris and 10mM EDTA.
[60-00-4 (EDTA)] ; [77-86-1 (Tris)]
Recommended Storage: RT
Filtered through a 5-micron filter and autoclaved.

Tris-EDTA
1X Solution, pH 7.4 — Molecular Biology

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2476-100**
500 mℓ	mLPolyBottle	**BP2476-500**

CAS: 38641-82-6

DNase	Not detected
pH (1X solution) (at 25°C)	7.4±0.1
Protease	Not detected
RNase	Not detected

Applications: Tris-EDTA (TE) is routinely used for suspending nucleic acid samples.
10mM Tris and 1mM EDTA [60-00-4 (EDTA)] ; [77-86-1 (Tris)] ; [7647-01-0 (Hydrogen Chloride)]
Recommended Storage: RT
Filtered through a 5-micron filter.

Tris-EDTA
1X Solution, pH 7.6 — Molecular Biology

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2474-100**
500 mℓ	PolyBottle	**BP2474-500**
1 ℓ	PolyBottle	**BP2474-1**

CAS: 38641-82-6

DNase	Not detected
pH (1X solution) (at 25°C)	7.6±0.1
Protease	Not detected
RNase	Not detected

Applications: Tris-EDTA (TE) is routinely used for suspending nucleic acid samples.
10mM Tris and 1mM EDTA [60-00-4 (EDTA)] ; [77-86-1 (Tris)] ; [7647-01-0 (Hydrogen Chloride)]
Recommended Storage: RT
Filtered through a 5-micron filter.

Tris-EDTA
1X Solution, pH 8.0 — Molecular Biology

packaging		Mfr. No
100 mℓ	PolyBottle	**BP2473-100**
500 mℓ	PolyBottle	**BP2473-500**
1 ℓ	PolyBottle	**BP2473-1**

CAS: 38641-82-6

DNase	Not detected
pH (1X solution) (at 25°C)	8.0±0.1
Protease	Not detected
RNase	Not detected

Applications: Tris-EDTA (TE) is routinely used for suspending nucleic acid samples.
10mM Tris and 1mM EDTA [60-00-4 (EDTA)] ; [77-86-1 (Tris)] ; [7647-01-0 (Hydrogen Chloride)]
Recommended Storage: RT
Filtered through a 5-micron filter.

Water
Sterile-Filtered — Molecular Biology

packaging		Mfr. No
100 mℓ	Poly Bottle	**BP2819-100**
1 ℓ	Poly Bottle	**BP2819-1**
4 ℓ	PolyPac*	**BP2819-4**
10 ℓ	PolyPac*	**BP2819-10**
20 ℓ	PolyPac*	**BP2819-20**

H_2O EINECS: 231-791-2
CAS: 7732-18-5
MW: 18.02

Cadmium (Cd)	<=10 ppb
Calcium (Ca)	<=10 ppb
Chromium (Cr)	<=10 ppb
Cobalt (Co)	<=10 ppb
Copper (Cu)	<=10 ppb
DNase	Not detected
Iron (Fe)	<=10 ppb
Lead (Pb)	<=10 ppb
Magnesium (Mg)	<=10 ppb
Manganese (Mn)	<=10 ppb
pH at 25°C	Inclusive between 5.4-7.0
Protease	Not detected
RNase	Not detected
Solubility in water	<2uS/cm
Vanadium (V)	<=10 ppb

Applications: Ideal for many fundamental procedures such as PCR, electrophoresis, DNA sequencing, and buffers for enzymatic analyses.
Description: 0.3µm filtered to ensure high purity
Recommended storage: RT

Water, Sterile
Biotech Grade

packaging		Mfr. No
20 ℓ	PolyPac*	**BP2485-20**
4 ℓ	PolyPac*	**BP2485-4**

H_2O EINECS: 231-791-2
CAS: 7732-18-5
MW: 18.02

Heavy Metals (Pb)	<=0.01ppm
pH (at 25°C)	5.4-7.0
Specific Conductance (at 25°C)	<=2°-10-6 ohm-1 cm-1
Substances Reducing Permanganate	To pass test

Applications: Biotech-grade water can be used for several biological test procedures.

Water, Sterile
For DNA Work — DNA Grade

packaging		Mfr. No
1 ℓ	PolyBottle	**BP2470-1**

H_2O EINECS: 231-791-2
CAS: 7732-18-5
MW: 18.02

DNase	Not detected
Protease	Not detected

Applications: DNA-grade Water is DNase- and Protease-free and is suitable for all DNA work.
Filtered through a 0.2-micron filter and autoclaved.

Water
Sterile-Filtered — Microbial Cell Culture-Grade

packaging		Mfr. No
100 mℓ	Poly Bottle	**BP2820-100**
500 mℓ	Poly Bottle	**BP2820-500**
1 ℓ	Poly Bottle	**BP2820-1**

H_2O EINECS: 231-791-2
CAS: 7732-18-5
MW: 18.02

Arsenic (As)	<=10 ppb
Cadmium (Cd)	<=10 ppb
Calcium (Ca)	<=20 ppb
Chromium (Cr)	<=10 ppb
Cobalt (Co)	<=10 ppb
Copper (Cu)	<=10 ppb
Endotoxin	<0.025 EU/mℓ
Iron (Fe)	<=10 ppb
Lead (Pb)	<=10 ppb
Magnesium (Mg)	<=10 ppb
Manganese (Mn)	<=10 ppb
Oxidizable substances	To pass test
pH at 25°C	Inclusive between 5.4-7.0
Silver (Ag)	<=10 ppb
Sodium (Na)	<=20 ppb
Solubility in water	<2uS/cm
Tin (Sn)	<=10 ppb
Vanadium (V)	<=10 ppb

Applications: For the preparation of microbiological growth media (functionally tested for promoting microbial growth).
Description: 0.3µm filtered and autoclaved
Recommended storage: RT

Water, Sterile
Nuclease Free

packaging		Mfr. No
50 mℓ	PolyBottle	**BP2484-50**
100 mℓ	PolyBottle	**BP2484-100**

H_2O EINECS: 231-791-2
CAS: 7732-18-5
MW: 18.02

DNase	Not detected
Protease	Not detected
RNase	Not detected

Applications: Diethylpyrocarbonate (DEPC)-treated Water is guaranteed nuclease-free (tested for both DNase and RNase) and is suitable for all RNA work.
Filtered through a 0.2-micron filter.

Water, Sterile
For RNA Work, DEPC-treated and Nuclease-free — Molecular Biology

packaging		Mfr. No
1 ℓ	PolyBottle	**BP561-1**

H_2O EINECS: 231-791-2
CAS: 7732-18-5
MW: 18.02

DNase	Not detected
Protease	Not detected
RNase	.Not detected
Specific Conductance (at 25°C)	.<=18°-10-6ohm-1cm-1

Applications: Diethylpyrocarbonate (DEPC)-treated Water is guaranteed nuclease-free (tested for both DNase and RNase) and is suitable for all RNA work.
DEPC-treated and autoclaved.
Filtered through a 0.2-micron filter.