

Molecular Biology Reagents



CATALOG NUMBER

3142000
0-5°C
AURORA™ GUS CHEMILUMINESCENT REPORTER GENE ASSAY For Plant Cells 600/kit
Chemiluminescent Gene Reporter Assay for β-Glucuronidase
Kit Size: 200 assays or 600 assays
Contents:
• Gus-Reaction Buffer Diluent
• Lysis Solution
• Light Emission Accelerator
• Glucuron™ Chemiluminescent Substrate
• Protocol Booklet

3143000
0-5°C
AURORA™ GUS CHEMILUMINESCENT REPORTER GENE ASSAY For Mammalian Cells 200/kit
Chemiluminescent Gene Reporter Assay for β-Glucuronidase
Kit Size: 200 assays or 600 assays
Contents:
• Gus-Reaction Buffer Diluent
• Lysis Solution
• Light Emission Accelerator
• Glucuron™ Chemiluminescent Substrate
• Protocol Booklet

3144000
0-5°C
AURORA™ GUS CHEMILUMINESCENT REPORTER GENE ASSAY For Mammalian Cells 600/kit
Chemiluminescent Gene Reporter Assay for β-Glucuronidase
Kit Size: 200 assays or 600 assays
Contents:
• Gus-Reaction Buffer Diluent
• Lysis Solution
• Light Emission Accelerator
• Glucuron™ Chemiluminescent Substrate
• Protocol Booklet

ADDITIONAL REAGENTS

105456
0°C
3'-O-ACETYL-2'-DEOXYADENOSINE 1 mg
[6612-73-3] 5 mg
Crystalline 25 mg
100 mg
For the preparation of 5'-derivatives of 2'-deoxyadenosine.
C₁₂H₁₅N₅O₄ MW 293.3

105457
0°C
3'-O-ACETYL-2'-DEOXYCYTIDINE 1 mg
[72560-69-1] 5 mg
Crystalline 25 mg
100 mg
For the preparation of 5'-derivatives of 2'-deoxycytidine.
C₁₁H₁₅N₃O₅ MW 269.3

105458
0°C
3'-O-ACETYL-2'-DEOXYGUANOSINE 1 mg
For the preparation of 5'-derivatives of 2'-deoxyguanosine 5 mg
25 mg
100 mg

100041
0-5°C
3'-O-ACETYLTHYMIDINE 100 mg
[21090-30-2] 500 mg
Purity: Approx. 99% 1 g
C₁₂H₁₆N₂O₆ MW 284.3

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150254
RT
ACRIDINE ORANGE BASE 5 g
[494-38-2] 25 g
(3,6-bis(Dimethylamino)acridine) 100 g
C.I. 46005
Fluorescent stain for proteins.
RNA Polymerase inhibitor
Dye content approx. 78%
Nature, 187, 964 (1960).
C₁₇H₁₉N₃ MW 265.4

194120
0-5°C
ALBUMIN, BOVINE 25 mg
[9048-46-8] 100 mg
Nuclease-Free 250 mg
Purity: ≥90%
Contains no detectable exonuclease, endonuclease, ribonuclease, or protease activity. Some degradation products may exist.
Supplied as an aqueous solution in 50% glycerol at a concentration of 50 mg/ml at neutral pH.

100651
RT
AMMONIUM ACETATE 250 g
[631-61-8] 500 g
Crystalline 2 kg
Purity: ~99% 5 kg
NH₄C₂H₃O₂ MW 77.1

194000
RT
AMMONIUM ACETATE 100 g
[631-61-8] 250 g
Purity: ~98% 500 g
Molecular Biology Reagent
NH₄C₂H₃O₂ MW 77.1

198759
0-5°C
AMMONIUM ACETATE 100 ml
[631-61-8] 1 liter
Purity: ~98%
7.5M Solution
Prepared in 18 megohm water and 0.2 μm filtered.
Ref.: Sambrook, J., et al., Molecular Cloning: A Laboratory Manual, CSHL (1989), p. B.10.

194806
RT
AMMONIUM CHLORIDE 100 g
[12125-02-9] 500 g
Purity: ~98% 1 kg
Molecular Biology Reagent
NH₄Cl MW 53.5

194807
AMMONIUM SULFATE 100 g
[7783-20-2] 500 g
Molecular Biology Reagent 1 kg
5 kg
Fe: <5 ppm
Mg: <5 ppm
Pb: <2 ppm
Mn: <1 ppm
Ca: <5 ppm
Zn: <5 ppm
Cu: <2 ppm
Useful in the isolation and purification of enzymes and proteins.
(NH₄)₂SO₄ MW 132.1

150445
0°C
N⁶-BENZOYL-2'-DEOXYADENOSINE 25 mg
[4546-72-9] 100 mg
(dA-N-Bz) 250 mg
Crystalline 1 g
Intermediate for oligonucleotide synthesis.
C₁₇H₁₇N₅O₄ MW 355.4



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150446
0°C **N⁴-BENZOYL-2'-DEOXYCYTIDINE** 25 mg
[4836-13-9] 100 mg
(dC-N-Bz) 250 mg
Crystalline 1 g
Intermediate for oligonucleotide synthesis.
C₁₆H₁₇N₃O₅ MW 331.3

194808
RT **BES** 25 g
[10191-18-1] 100 g
(N,N-bis(2-Hydroxyethyl)-2-aminoethanesulfonic acid) 500 g
Free Acid
Molecular Biology Reagent
Purity: 99+%
Zwitterionic buffer, pKa = 7.1 at 25°C; useful pH range 6.4-7.8.
C₆H₁₅NO₅S MW 213.2

194809
RT **BIS-TRIS PROPANE** 25 g
[64431-96-5] 100 g
(1,3-bis[tris(Hydroxymethyl)methyl-amino]-propane) 500 g
Molecular Biology Reagent
Purity: ≥99%
pKa₁=6.8, pKa₂ = 9.0 at 25°C.
Useful pH range 6.3-9.5.
C₁₁H₂₆N₂O₆ MW 282.3

194810
RT **BORIC ACID** 500 g
[10043-35-3] 1 kg
Molecular Biology Reagent 5 kg
Purity: ~99% 10 kg
Mg ≤5 ppm
Fe ≤5 ppm
Pb ≤20 ppm
H₃BO₃ MW 61.83

194802
-20°C **BREFELDIN A** 5 mg
[20350-15-6] 10 mg
(γ,4-Dihydroxy-2-[6-hydroxy-1-heptenyl]-4-cyclopentanecarboxylic acid λ-lactone; BFA)
Molecular Biology Reagent
Blocks binding of the cytosolic coat protein β-COP and ARF to Golgi membranes mediated by protein G. Also blocks protein transportation into post-Golgi compartments.
Ref.: Misumi, T., et al., J. Biol. Chem., **261**, 11398 (1986).
C₁₆H₂₄O₄ MW 280.4

194840
RT **BRIJ 35** 100 g
[9002-92-0] 250 g
(Polyoxyethylene 23 Lauryl Ether)
Molecular Biology Reagent
For use in Stein-Moore Chromatography and all molecular biology applications.
Ref.: Stein, W.H. and Moore, S.J., J. Biol. Chem., **211**, 893 (1954).

194811
0°C **5-BROMO-4-CHLORO-3-INDOLYL-β-D-GALACTOPYRANOSIDE** 10 mg
[7240-90-6] 100 mg
(X-Gal; 5-Bromo-4-chloro-3-indolyl-β-D-galactoside) 500 mg
Molecular Biology Reagent
Purity: ≥98%
Used as indigogenic substrate for β-galactosidase, for detection of β-galactosidase-positive clones, and the identification of lac and bacterial colonies or phage plaques.
C₁₄H₁₅BrClNO₆ MW 408.6

CATALOG
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194812
-20°C **5-BROMO-4-CHLORO-3-INDOLYL-β-D-GLUCURONIDE** 10 mg
[18656-96-7] 25 mg
(X-GlcA; X-Glucuro) 100 mg
Molecular Biology Reagent
Cyclohexylammonium Salt
Purity: ≥98%
A β-glucuronidase substrate which forms an intense blue precipitate upon enzymatic action. Used for the detection of the GUS gene in bacterial colonies and in histochemical applications.
Protect from light and humidity.
C₁₄H₁₃BrClNO₇ • C₆H₁₃N MW 521.8

194813
-20°C **5-BROMO-4-CHLORO-3-INDOLYL-β-D-GLUCURONIDE** 10 mg
[129541-41-9] 25 mg
(X-GlcA; X-Glucuro) 100 mg
Molecular Biology Reagent 500 mg
Sodium Salt
Purity: ≥98%
A β-glucuronidase substrate which forms an intense blue precipitate upon enzymatic action. Used for the detection of the GUS gene in bacterial colonies and in histochemical applications.
Protect from light and humidity.
C₁₄H₁₃BrClNO₇Na MW 444.6

194814
-20°C **5-BROMO-3-INDOLYL-β-D-GALACTOPYRANOSIDE** 10 mg
[97753-82-7] 100 mg
(Bluo-GAL) 500 mg
Molecular Biology Grade
Purity: ≥98%
An α-galactosidase substrate which is converted to an insoluble indigo-blue chromophore darker than that released by X-GAL. It is ideal for Lac gene detection systems in immunoblotting, immunocytochemical, and histological applications.
Protect from light and humidity.
C₁₄H₁₆BrNO₆ MW 374.2

193989
0°C **5-BROMO-4-CHLORO-3-INDOLYL PHOSPHATE** 25 mg
[102185-33-1] 100 mg
Molecular Biology Reagent 500 mg
Disodium Salt
Purity: >98%
Chromogenic substrate for alkaline phosphatase in ELISA.
C₈H₆BrClNO₄PN₂ MW 370.4

193991
RT **5-BROMO-4-CHLORO-3-INDOLYL PHOSPHATE** 25 mg
[6578-06-9] 100 mg
Molecular Biology Reagent 500 mg
p-Toluidine Salt
Purity: ≥98%
A chromogenic substrate for alkaline phosphatase in ELISA.
C₈H₆BrClNO₄P • C₇H₉N MW 433.6

193990
RT **BROMOPHENOL BLUE** 5 g
[62625-28-9] 10 g
Molecular Biology Reagent 25 g
Sodium Salt
Ideal tracking dye for nucleic acid gel electrophoresis.
C₁₉H₉Br₄O₅SNa MW 692.0

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194001 n-BUTANOL 25 ml
RT [71-36-3] 100 ml
(1-Butanol; Butyl Alcohol) 500 ml
Molecular Biology Reagent
Purity: 99+%
Useful for ethidium bromide removal from DNA purified by CsCl gradient ultracentrifugation. It may also be used in the concentration of dilute nucleic acid solutions by repeated extractions. Improved recovery by ethanol precipitation results from increased nucleic acid concentration.
C₄H₁₀O MW 74.12

194787 CHLORAMPHENICOL 10 mg
RT [56-75-7] 20 mg
(D(-)-threo-2,2-Dichloro-N-[β-hydroxy-α-(hydroxymethyl)-β-(4-nitrophenyl)ethylacetamide])
γ-Irradiated
Molecular Biology Reagent
Inhibitor of translation on the 50S subunit at the peptidyltransferase step.
C₁₁H₁₂Cl₂N₂O₅ MW 323.1

150589 CESIUM CHLORIDE 5 g
RT *ULTRA PURE* 25 g
[7647-17-8] 100 g
Ultra Pure 500 g
Purity: 99.999% 1 kg
A₂₆₀ of 50% solution < 0.02
Solutions are clear and colorless. Especially suited for critical density gradient techniques.
CsCl MW 168.4

101321 CESIUM CHLORIDE 25 g
RT [7647-17-8] 100 g
Reagent Grade 250 g
Purity: 99.0% 500 g
Solubility: Clear, colorless (50% aqueous solution) 1 kg
pH: 5.5-6.5 (1% aqueous solution)
CsCl MW 168.4

194815 CALCIUM CHLORIDE 100 g
RT [10035-04-8] 250 g
Molecular Biology Reagent 500 g
Purity: ~99%
Dihydrate
Ref.: Sambrook, J., et al., "Molecular Cloning: A Laboratory Manual", Cold Spring Harbor Laboratory, pp. 1.82-1.84 (1989).
CaCl₂ • 2H₂O MW 147

194816 6-CHLORO-3-INDOLYL-β-D-GLUCURONIDE 5 mg
-20°C [138182-20-4] 25 mg
(Salmon-Glucuro; Salmon-β-D-GlcA)
Molecular Biology Reagent
Purity: ≥98%
Cyclohexylammonium Salt
A β-glucuronidase chromogenic substrate which produces an insoluble pink color in GUS⁺ bacterial colonies. It serves as an alternative to X-glucuronide for β-glucuronidase detection.
Protect From Light and Humidity.
C₁₄H₁₄ClNO₇ • C₆H₁₃N MW 442.9

CATALOG
NUMBER

194800 CHLOROFORM 1 vial
RT [67-66-3] 5 vials
Molecular Biology Reagent
Purity: 99+%
Used for PCR aqueous phase recovery overlaid with mineral oil.
Each vial contains 1.5 ml.
CHCl₃ MW 119.4

194002 CHLOROFORM 25 ml
RT [67-66-3] 100 ml
Molecular Biology Reagent 500 ml
Purity: 99+%
For nucleic acid purification. Improves extraction of crude DNA when used with phenol.
CHCl₃ MW 119.4

150648 4-CHLOROPHENYL 1 ml
0-5°C **PHOSPHORODICHLORIDATE** 5 ml
[772-79-2] 25 ml
(4-Chlorophenyl dichlorophosphate)
Phosphorylating reagent for oligonucleotide synthesis.
1 ml = approx. 1.51 gm
Ref.: Chem. Lett. 197 (1981).
C₆H₄Cl₃O₂P MW 245.4

194817 CITRIC ACID 100 g
RT [68-04-2] 500 g
(Sodium citrate) 1 kg
Molecular Biology Reagent 5 kg
Purity: ~99% 10 kg
Trisodium Salt
Dihydrate
C₆H₅O₇Na₃ • 2H₂O MW 294.1

150923 5'-DIMETHOXYTRITYL-N⁶-BENZOYL-2'- 100 mg
0°C **DEOXYADENOSINE** 250 mg
[64325-78-6] 1 g
(5'-DMT-N-Bz-dA) 5 g
C₃₈H₃₅N₅O₆ MW 657.7

150924 5'-DIMETHOXYTRITYL-N⁴-BENZOYL-2'-DEOXYCYTIDINE 100 mg
0°C [67219-55-0] 250 mg
(5'-DMT-N-Bz-dC) 1 g
C₃₇H₃₅N₅O₇ MW 633.7 5 g

150926 5'-DIMETHOXYTRITYL-N²-ISOBUTYRYL-2'- 100 mg
0°C **DEOXYGUANOSINE** 250 mg
[68892-41-1] 1 g
(5'-DMT-N-iBu-dG) 5 g
C₃₅H₃₇N₅O₇ MW 639.7

150927 5'-DIMETHOXYTRITYL THYMIDINE 100 mg
0°C [40615-39-2] 250 mg
(5'-DMT-T) 1 g
C₃₁H₃₂N₂O₇ MW 544.6 5 g

194818 N,N-DIMETHYLFORMAMIDE 5 ml
RT [68-12-2] 250 ml
(DMF) 500 ml
Molecular Biology Reagent
Purity: 99+%
A solvent for chromogenic substrates in molecular biology experiments.
C₃H₇NO MW 73.09

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194819 **DIMETHYL SULFOXIDE** 50 ml
 RT [67-68-5] 100 ml
 (DMSO) 250 ml
Molecular Biology Reagent
Purity: ≥99%
 Meets ACS specifications.
 C_2H_6SO MW 78.13

194820 **DITHIOERYTHRITOL** 250 mg
 0-5°C [6892-68-8] 1 g
 (DTE; Cleland's Reagent) 5 g
Molecular Biology Reagent 10 g
Purity: 99+% 25 g
 Ideal for molecular biology applications. 50 g
 $C_4H_{10}O_2S_2$ MW 154.2

194821 **DL-DITHIOTHREITOL** 250 mg
 0-5°C [27565-41-9] 1 g
 (DTT) 5 g
Molecular Biology Reagent 10 g
Purity: >99% 25 g
 $C_4H_{10}O_2S_2$ MW 154.2 50 g

816203 **DNA/RNA RUNNING BUFFER** 1 box
 20 mM Tris HCl
 0.2 mM EDTA
 5 mM NaCl
 Empty contents of 1 packet into a 4-liter flask and add deionized water. Four liters of pH 8.0 buffer is now ready to use. This is a commonly used buffer for DNA and RNA electrophoresis.
 (1 box contains 12 packets).

194822 **ETHYLENEDIAMINETETRAACETIC ACID** 50 g
 RT [6381-92-6] 100 g
 (EDTA) 250 g
Molecular Biology Reagent 500 g
Purity: 99+% 1 kg
Disodium Salt 5 kg
Dihydrate
 Ideal for most molecular biology applications.
 $C_{10}H_{14}N_2O_8Na_2 \cdot 2H_2O$ MW 372.2

2820349 **ETHYLENEDIAMINETETRAACETIC ACID** 100 ml
 (EDTA; Versene)
 0.02% (w/v) solution
In Normal Saline
 Storage temperature: 15-30°C

194823 **ETHYLENE GLYCOL-bis-[β-AMINO-** 10 g
 RT **ETHYLETER)-N,N,N',N'-TETRAACETIC ACID** 25 g
 [67-42-5] 100 g
 (EGTA) 500 g
Molecular Biology Reagent
Purity: ≥97%
 $C_{14}H_{24}N_2O_{10}$ MW 380.4

193993 **ETHIDIUM BROMIDE** 250 mg
 RT [1239-45-8] 1 g
 (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide; 5 g
 Homidium bromide) 25 g
Molecular Biology Reagent
Purity: 98%
 Ideal for fluorometric detection of double stranded nucleic acids in gel electrophoresis. Also acts as an RNA polymerase inhibitor, and in separation of high molecular weight DNA's.
 $C_{21}H_{20}N_3Br$ MW 394.3

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194824 **FICOLL®** 5 g
 RT [26873-85-8] 10 g
Molecular Biology Reagent 25 g
Dialyzed 100 g
Approx. Mol. Wt. 400,000 500 g
 A copolymer of sucrose and epichlorohydrin.
 Component used to make density gradients for lymphocyte separation.
 Ficoll® is a registered trademark of Pharmacia, Inc.

802511 **ETHIDIUM BROMIDE SOLUTION** 10 ml
 RT [1239-45-8]
 A 10mg/ml easy-to-use solution of ethidium bromide in specially filtered, deionized water.
 • Excellent for nucleic acid electrophoresis and purification applications.
 • Eliminates the dust hazard associated with powdered ethidium bromide
 • Saves time spent on weighing and mixing.
 $C_{21}H_{20}BrN_3$ MW 394.3

194047 **FORMALDEHYDE, ACS** 100 ml
 RT [50-00-0] 500 ml
Formalin
ACS Reagent Grade
37% Solution
Purity: 36.5-38%
 Contains 10-15% methanol.
 CH_2O MW 30.03

193995 **FORMAMIDE** 100 g
 RT [75-12-7] 250 g
Molecular Biology Reagent 500 g
Purity: ≥99.5% 1 kg
 Ideal for sequencing, denaturing polyacrylamide gels, and nucleic acid hybridization.
 CH_3NO MW 45.0

194803 **FORSKOLIN** 10 mg
 0°C [66575-29-9] 25 mg
 From *Coleus forskohlii*
 (7β-acetoxy-8,13-epoxy-1α,6β,9α-trihydroxy-labd-14-ene-11-one)
Molecular Biology Reagent
 Functions as an antihypertensive and vasodilator.
 Adenylcyclase activator.
Ref.: Huang, R., et al., J. Cyclic Nucleotide Research, 8, 385 (1982).
 $C_{22}H_{34}O_7$ MW 410.5

193996 **GLYCEROL** 100 ml
 RT [56-81-5] 500 ml
Molecular Biology Reagent 1 liter
Purity: 99+%
 Heavy metals (Pb): <5 ppm
 No detectable DNase, RNase, or protease.
 Prevents back-diffusion and protein samples into the buffer.
 $C_3H_8O_3$ MW 92.09

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194825	GLYCINE [56-40-6] Molecular Biology Reagent Purity: 99+% Ideal for all molecular biology applications and buffer preparations. C ₂ H ₅ NO ₂ MW 75.07	100 g 500 g 1 kg 5 kg
194826 RT	GUANIDINE HYDROCHLORIDE [50-01-1] Molecular Biology Reagent Purity: 99+% CH ₅ N ₃ • HCl MW 95.53	25 g 100 g 500 g 1 kg 3 kg
194003 RT	GUANIDINE THIOCYANATE [593-84-0] Molecular Biology Reagent Purity: ≥99% Strong protein denaturant which inactivates nucleases approximately 2.5 times faster than guanidine hydrochloride. CH ₅ N ₃ • HSCN MW 118.2	100 g 250 g 500 g
194827 RT	HEPES [7365-45-9] (N-2-Hydroxyethylpiperazine-N'-2-ethanesulfonic acid) Molecular Biology Reagent Purity: 99+% Free Acid Zwitterionic Buffer useful in the pH range 6.8-8.2. pKa = 7.55 at 25°C C ₈ H ₁₈ N ₂ O ₄ S MW 238.3	25 g 100 g 500 g
194828 RT	HEPES [75277-39-3] Molecular Biology Reagent Purity: 99+% Sodium Salt pKa = 7.55 at 25°C C ₈ H ₁₇ N ₂ O ₄ SNa MW 260.3	25 g 100 g 500 g
194054 RT	HYDROCHLORIC ACID, ACS [7647-01-0] ACS Reagent Grade Purity: 36.5-38% HCl MW 36.5	100 ml 500 ml
198596 RT	IGEPAL® CA-630 [9002-93-1] Non-Ionic Detergent This product is chemically equivalent to Nonidet P-40. Nonidet is no longer commercially available.	50 ml 100 ml 500 ml
194829 RT	IMIDAZOLE [288-32-4] Molecular Biology Reagent Purity: 99+% Histamine Antagonist. Useful pH range: 6.2-7.8 C ₃ H ₄ N ₂ MW 68.1	5 g 25 g 100 g
151356 0-5°C	N²-ISOBUTYRYL-2'-DEOXYGUANOSINE [68892-42-2] (dG-N-iBu)	25 mg 100 mg 250 mg 1 g

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151357 0-5°C	N²-ISOBUTYRYL-2'-DEOXYGUANOSINE-3'-(4-CHLOROPHENYL-2-CYANO-ETHYL)PHOSPHATE [HO-N-iBu-dG-PO-(Cl-Ph)(CNEt)]	25 mg 100 mg 500 mg
194008 RT	N-LAUROYLSARCOSINE [7631-98-3] Molecular Biology Reagent Sodium Salt Purity: ≥97% Useful in concentrated salt solutions used in the cell lysis step during RNA purification. C ₁₅ H ₂₈ NO ₃ Na MW 293.4	50 g 100 g 250 g
194010 RT	LITHIUM CHLORIDE [7447-41-8] Molecular Biology Reagent Purity: ≥99% LiCl MW 42.4	100 g 500 g
194830	LITHIUM DODECYL SULFATE [2044-56-6] (LDS; Lauryl sulfate lithium salt) Molecular Biology Reagent Purity: ~99% C ₁₂ H ₂₅ SO ₄ Li MW 272.33	5 g 25 g 50 g
151569 RT	2,6-LUTIDINE [108-48-5] (2,6-Dimethylpyridine) 1 ml = approx. 0.92 gm Purity: 99% C ₇ H ₉ N MW 107.2	100 ml 500 ml 1 liter
194832 RT	MAGNESIUM ACETATE [16674-78-5] Molecular Biology Reagent Purity: ≥99% Tetrahydrate C ₄ H ₆ O ₄ Mg • 4H ₂ O MW 214.5	50 g 250 g
194833 RT	MAGNESIUM SULFATE [10034-99-8] Molecular Biology Reagent Purity: ≥99% Heptahydrate MgSO ₄ • 7H ₂ O MW 246.5	500 g 1 kg 5 kg
155334 RT	MANGANESE CHLORIDE [13446-34-9] Crystalline Tetrahydrate MnCl ₂ • 4H ₂ O MW 197.9	100 g 500 g
194834	2-MERCAPTOETHANOL [60-24-2] Molecular Biology Reagent Purity: 98+% Specially purified for molecular biology applications. C ₂ H ₆ OS MW 78.13	25 ml 100 ml 250 ml



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194835 RT	MES [4432-31-9] (2-[N-Morpholino]ethanesulfonic acid) Molecular Biology Reagent Free Acid Purity: ≥99% Zwitterionic buffers pKa = 6.15 at 25°C C ₆ H ₁₃ NO ₄ S • H ₂ O MW 213.2	10 g 25 g 100 g 250 g
151609 0°C	2-MESITYLENESULFONIC ACID [3453-83-6] Dihydrate (2,4,6-Trimethylbenzenesulfonic acid) Reagent for oligonucleotide synthesis (CH ₃) ₃ C ₆ H ₂ SO ₃ H • 2H ₂ O MW 236.3	5 g 10 g 25 g 50 g
151610 0°C	2-MESITYLENESULFONYL CHLORIDE [773-64-8] (2,4,6-Trimethylbenzene sulfonyl chloride) White to off-white crystals. Coupling reagent for polynucleotide synthesis. Sulfonating agent for carbohydrates. C ₉ H ₁₁ ClO ₂ S MW 218.7	5 g 10 g 25 g 50 g
151611 0°C	1-(MESITYLENE-2-SULFONYL)-IMIDAZOLE [50257-39-1] Crystalline Purity: >97% Reagent used in polynucleotide synthesis. Ref.: Yu, A. Berlin, et al., Tetrahedron Lett., 1353 (1973). C ₁₂ H ₁₄ N ₂ O ₂ S MW 250.3	1 g 5 g
151612 0°C	1-(MESITYLENE-2-SULFONYL)-3-NITRO-1,2,4-TRIAZOLE [74257-00-4] (MSNT) Crystalline Condensing reagent for oligonucleotide synthesis Ref.: Reese, C.B., et al., Tetrahedron, 36, 3075 (1980). C ₁₁ H ₁₂ N ₄ O ₄ S MW 296.3	250 mg 1 g
151613 0°C	1-(MESITYLENE-2-SULFONYL)-1H-TETRAZOLE [59128-89-1] (MESTET) Condensing reagent for oligonucleotide synthesis. Ref.: Narangy, S.A., et al., Nucleic Acids Res., 4, 353 (1977). C ₁₀ H ₁₂ N ₄ O ₂ MW 252.3	250 mg 1 g
151614 0°C	1-(2-MESITYLSULFONYL)-1H-1,2,4-TRIAZOLE [54230-59-0] (MST) Crystalline Purity: >98% Coupling reagent for nucleotide synthesis. C ₁₁ H ₁₃ N ₃ O ₂ S MW 251.3	250 mg 1 g 5 g
151644 0-5°C	METHYL DICHLOROPHOSPHITE [3279-26-3] Purity: ~98% Phosphorylating reagent for oligonucleotide synthesis by the triester method. Ref.: Science, 214, 270 (1981). 1 ml = approx. 1.41 g CH ₃ Cl ₂ OP MW 132.9	1 g 5 g 10 g 25 g 50 g

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194836 RT	MINERAL OIL Molecular Biology Reagent Light white oil 1 ml = approx. 0.84 gm Ideal for overlaying aqueous samples and for centrifuge gradients.	5 ml 5x5 ml 500 ml
194837 RT	MOPS [1132-61-2] (3-[N-Morpholino]propanesulfonic acid) Molecular Biology Reagent Purity: 99+% Free Acid Useful buffer range: 6.5-7.9 C ₇ H ₁₅ NO ₄ S MW 209.3	25 g 100 g 500 g
194014 RT	ORANGE G [1936-15-8] (Acid Orange 10; 7-Hydroxy-8-phenylazo-1,3-naphthalenedisulfonic acid; C.I. 16230) Molecular Biology Reagent Sodium Salt A tracking dye in nucleic acid gel electrophoresis which runs significantly faster than bromophenol blue. C ₁₆ H ₁₀ N ₂ O ₇ S ₂ Na ₂ MW 452.4	25 g 100 g
194838 RT	PIPES [5625-37-6] (Piperazine-N,N'-bis[2-ethanesulfonic acid]) Molecular Biology Reagent Purity: ≥99% Free Acid Buffer range: 6.1 to 7.5 pKa at 37°C = 6.66 C ₈ H ₁₈ N ₂ O ₆ S ₂ MW 302.4	25 g 100 g 500 g
151905 0-5°C	PIVALOYL CHLORIDE [3282-30-2] (Trimethylacetyl chloride) Reagent for mixed anhydride peptide synthesis 1 ml = approx. 0.98 g C ₅ H ₉ ClO MW 120.6	100 ml 250 ml
194839 RT	POLYETHYLENE GLYCOL [25322-68-3] Molecular Biology Reagent MW AVERAGE 8,000	500 g 1 kg 2 kg
194017 RT	POLYVINYLPIRROLIDONE [9003-39-8] Molecular Biology Reagent Average MW 360,000 Suitable for nucleic acid hybridizations. No detectable nuclease activity.	100 g 500 g 1 kg
194843 RT	POTASSIUM ACETATE [127-08-2] Molecular Biology Reagent Purity: ≥99% KC ₂ H ₃ O ₂ MW 98.14	100 g 500 g 1 kg
194844 RT	POTASSIUM CHLORIDE [7447-40-7] Molecular Biology Reagent Purity: ~99% KCl MW 74.55	500 g 1 kg 5 kg

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194845 RT	POTASSIUM PHOSPHATE DIBASIC [16788-57-1] Molecular Biology Reagent Purity: ≥99% Trihydrate K ₂ HPO ₄ • 3H ₂ O MW 228.2	100 g 500 g 1 kg
194846 RT	POTASSIUM PHOSPHATE MONOBASIC [7778-77-0] Molecular Biology Reagent Purity: ≥98% Anhydrous KH ₂ PO ₄ MW 136.09	100 g 500 g 1 kg
151985 0°C	syn-PYRIDINE-2-ALDOXIME [873-69-8] Crystalline Deblocking reagent for phosphotriesters in oligonucleotide synthesis. Ref.: Tetrahedron Letters, (1978) 2727, 4443. C ₆ H ₈ N ₂ O MW 122.1	1 g 5 g 10 g 25 g
821682 RT	RNase ERASE™ Spray Bottle A novel RNase decontamination solution. Completely removes RNase contamination from glass and plastic surfaces, pipettes, and equipment that must be "RNase-free."	250 ml
821683 RT	RNase ERASE™ Dropper/Squirt Bottle A novel RNase decontamination solution. Completely removes RNase contamination from glass and plastic surfaces, pipettes, and equipment that must be "RNase-free."	2x125 ml
821684 RT	RNase ERASE™ Refill Bottle A novel RNase decontamination solution. Completely removes RNase contamination from glass and plastic surfaces, pipettes, and equipment that must be "RNase-free."	250 ml
194012 RT	SODIUM ACETATE [127-09-3] Molecular Biology Reagent Anhydrous Purity: >98% C ₂ H ₃ O ₂ Na MW 82.03	250 g 1 kg 5 kg
194847 RT	SODIUM BICARBONATE [144-55-8] Molecular Biology Reagent Purity: ≥99% NaHCO ₃ MW 84.01	250 g 1 kg
194848 RT	SODIUM CHLORIDE [7647-14-5] Molecular Biology Reagent Purity: 99.5% min. Crystalline Ideal for all molecular biology applications NaCl MW 58.44	500 g 1 kg 5 kg 10 kg
194831	SODIUM DODECYL SULFATE [151-21-3] Molecular Biology Reagent Purity: ~99% CH ₃ (CH ₂) ₁₁ OSO ₃ Na MW 288.4	25 g 100 g 250 g 500 g 1 kg

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194849	SODIUM PHOSPHATE DIBASIC [7558-79-4] Molecular Biology Reagent Anhydrous Na ₂ HPO ₄ MW 141.96	250 g 500 g 1 kg
194850 RT	SODIUM PHOSPHATE MONOBASIC [7558-80-7] (Monosodium phosphate) Molecular Biology Reagent Purity: ≥98% Anhydrous NaH ₂ PO ₄ MW 120	250 g 500 g 1 kg
194851 RT	D-SORBITOL [50-70-4] (D-Glucitol) Molecular Biology Reagent Purity: ≥98% C ₆ H ₁₄ O ₆ MW 182.2	100 g 500 g 1 kg 5 kg
194852 0-5°C	SPERMIDINE [124-20-9] (N-[3-Aminopropyl]-1,4-butanediamine) Molecular Biology Reagent Free Base Purity: ~99% Promotes T4 polynucleotide kinase activity. C ₇ H ₁₉ N ₃ MW 145.2	1 g 5 g 25 g
194018 RT	SUCROSE [57-50-1] Molecular Biology Reagent Purity: 99+% Glucose: <.1% Heavy metals (Pb): <5 ppm DNase, RNase, and protease free. C ₁₂ H ₂₂ O ₁₁ MW 342.30	500 g 1 kg 5 kg
152458 RT	TAPS [91000-53-2] Sodium Salt Crystalline C ₇ H ₁₆ NO ₆ SNa MW 265.3	25 g 100 g 500 g
194853 RT	TES [7365-44-8] (N-Tris-[hydroxymethyl]methyl-2-aminoethanesulfonic acid) Molecular Biology Reagent Purity: ≥99% Free Acid pKa at 25°C = 7.5 Useful pH range 6.8-8.2 C ₆ H ₁₅ NO ₆ S MW 229.2	25 g 100 g 500 g
156824 0-5°C	meso-TETRA(4-N-METHYL-PYRIDYL)PORPHYRIN [36951-72-1] Tetratosylate Salt	100 mg 250 mg 1 g
152120 RT	1H-TETRAZOLE [288-94-8] Purity: 99+% Suitable for preparation of the coupling reagent for automated synthesis of polynucleotides. CH ₂ N ₄ MW 70.1	500 mg 1 g 5 g



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103105 0-5°C	1,2,4-TRIAZOLE [288-88-0] (Pyrotriazole) Crystalline C ₂ H ₃ N ₃ MW 69.1	1 g 5 g 10 g 25 g 100 g
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152592 RT	TRICHLOROACETIC ACID, ACS [76-03-9] ACS Reagent Grade Purity: ≥99.0% C ₂ HCl ₃ O ₂ MW 163.4	250 g 500 g 1 kg
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NEW 196057 RT	TRICHLOROACETIC ACID SOLUTION [76-03-9] 6.1 N Solution Approx. 100% (w/v)	100 ml
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NEW 196062	TRICHLOROACETIC ACID SOLUTION [76-03-9] 0.18 N Solution Approx. 3% (w/v)	50 ml 500 ml
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NEW 196061	TRICHLOROACETIC ACID SOLUTION [76-03-9] 0.38 N Solution Approx. 6.25% (w/v)	50 ml 200 ml
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NEW 196060 0-5°C	TRICHLOROACETIC ACID SOLUTION [76-03-9] 0.49 N Solution Approx. 8% (w/v)	50 ml 200 ml
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NEW 196059 0-5°C	TRICHLOROACETIC ACID SOLUTION [76-03-9] 0.60 N Solution Approx. 10% (w/v)	25 ml
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NEW 196058 0-5°C	TRICHLOROACETIC ACID SOLUTION [76-03-9] 0.73 N Solution Approx. 12% (w/v)	100 ml
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194855 RT	TRIS [77-86-1] (Tris-[hydroxymethyl]amino- methane) Molecular Biology Reagent Purity: 99.95% min. Buffering pH range 7.0-9.0 pKa at 25°C = 8.1 Excellent biochemical and biological buffer for all molecular biology applications. C ₄ H ₁₁ NO ₃ MW 121.14	100 g 250 g 500 g 1 kg 5 kg
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194856 RT	TRIS [1185-53-1] Molecular Biology Reagent Purity: ≥99% Hydrochloride C ₄ H ₁₁ NO ₃ • HCl MW 157.6	100 g 250 g 500 g
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816204	TRIS-EDTA BUFFER 10 mM Tris HCl 0.1 mM EDTA Empty contents of 1 packet into a 4-liter flask and add deionized water. Four liters of pH 7.4 buffer is now ready for use. This buffer is useful for DNA extractions from Low Gelling Temperature (LGT) Agarose gels. Note: If contents of 1 packet are dissolved in only 2 liters of deionized water, this buffer is then useful for DNA isolations with cesium chloride protocols. (1 box contains 12 packets)	1 box
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194854	TRITON X-100 Molecular Biology Reagent Water Content: <1% Pb ≤5 ppm Triton is a registered trademark of Union Carbide Chemicals and Plastics Co., Inc.	50 ml 100 ml 250 ml
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194841 RT	TWEEN 20 [9005-64-5] (Polyoxyethylenesorbitan monolaurate) Molecular Biology Reagent Purity: ~50% lauric acid.	50 ml 100 ml
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194842 RT	TWEEN 80 [9005-65-6] (Polyoxyethylenesorbitan monooleate) Molecular Biology Reagent Purity: ~70% oleic acid	50 ml 100 ml
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194857	UREA Molecular Biology Reagent Purity: ≥98% Pb <2 ppm H ₂ NCONH ₂ MW 60.06	100 g 500 g 1 kg 5 kg
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821739 RT	WATER, DNase, RNase-FREE Deionized water treated with 0.001% diethylpyrocarbonate (DEPC). Filtered through 0.2 micron filter and autoclaved to yield a sterile solution completely free of detectable DNase (both exo and endo) and RNase.	500 ml
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194858 RT	ZINC CHLORIDE [7646-85-7] Molecular Biology Reagent Purity: ≥97% ZnCl ₂ MW 136.28	100 g 500 g
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