

БУФЕРНЫЕ РЕАГЕНТЫ



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Product	Min. Qty.
391338 HEPES, Free Acid, ULTROL® Grade	10 kg
391948 Hydroxylapatite, High Resolution	5 kg
475898 MOPS, Free Acid, ULTROL Grade	10 kg
70748 Pellet Paint® NF Co-Precipitant	20 ml
53702 PRONASE® Protease, <i>Streptomyces griseus</i>	2.5 L
539480 Proteinase K	100 KU
70856 RNase A Solution	100 ml
556746 Ribonuclease A, Bovine Pancreas (RNase A)	1000 KU



Nucleic Acid Preparation and General Buffers

391338 HEPES, Free Acid, ULTROL® Grade

Minimum Quantity: 10 kg

- Zwitterionic N-substituted aminosulfonic acid buffer.
- Active in the pH range of 6.0 to 8.5.
- Purity: $\geq 99\%$ by titration (dry basis). Contaminants: chloride, $\leq 0.01\%$; sodium, $\leq 0.1\%$; sulfate, $\leq 0.05\%$. Heavy metals: < 1 ppm. Absorbance (1.0 M, H₂O, 260 nm): ≤ 0.05 .
- White Solid. Soluble in H₂O. pKa 7.55 at 20°C. RTECS TL6809000, CAS 7365-45-9, M.W. 238.3.

391948 Hydroxylapatite, High Resolution

Minimum Quantity: 5 kg

- A form of calcium phosphate that is useful for analytical applications, as well as preparative and batch procedures.
- BSA binding capacity: > 15 mg/g; DNA binding capacity: > 1200 mg/g.
- White solid. CAS 1306-06-5, M.W. 1004.6.

475898 MOPS, Free Acid, ULTROL Grade

Minimum Quantity: 10 kg

- Zwitterionic buffer active in the pH range of 6.5 to 8.0.
- Purity: $\geq 99\%$ by titration. Heavy metals: ≤ 1 ppm. Absorbance (1.0 M, H₂O, 260 nm): 0.05. Soluble in H₂O. pKa 7.2 at 20°C.
- White solid RTECS QE9104530, CAS 1132-61-2, M.W. 209.3.

70748 Pellet Paint® NF Co-Precipitant

Minimum Quantity: 20 ml

- A nonfluorescent dye-labeled carrier that provides a simple confirmation that precipitation has occurred.
- Fully compatible with fluorescent sequencing and the ABI PRISM® BigDye™ Terminator Cycle Sequencing Ready Reaction.
- Sequencing reaction products pellet efficiently and dye-labeled terminators remain in the supernatant during alcohol precipitation using standard precipitation protocols.
- No detectable effect on the sequencing reaction or sequence accuracy.
- 1 ml is sufficient for 1,000 precipitations.

53702 PRONASE® Protease, *Streptomyces griseus*

Minimum Quantity: 2.5 L

- Liquefies mucins and digests proteins to free amino acids.
- Can be used to isolate living chondrocytes and for extraction of bacteriophage lambda DNA.
- Most active at neutral pH, but stable over wide ranges of pH and temperature.
- Nuclease-free.
- One unit is defined as the amount of enzyme that will liberate a digestion product equivalent to 25 mg of tyrosine per minute at 40°C, pH 7.5. Soluble in H₂O. pH optimum 7.5.
- Lyophilized solid containing calcium acetate as a stabilizer. HYGROSCOPIC. RTECS UK9595000, CAS 9036-06-0.

539480 Proteinase K, *Tritirachium album*

Minimum Quantity: 100 KU

- Serine protease that exhibits strong proteolytic activity on a wide variety of denatured and native proteins of high molecular weight.
- Used for isolation of mRNA and high molecular weight DNA. DFP, Hg²⁺, and PMSF are inhibitors.
- Not inactivated by metal chelators, sulfhydryl reagents, TLCK, or TPCK.
- One unit is defined as the amount of enzyme that will liberate 1.0 μ mol of tyrosine per minute at 37°C, pH 7.5.
- Contaminants: DNase, no detectable nicking activity with pBR322, incubation for 6 h at 37°C; RNase, no ribonuclease activity with MS2 RNA detected after incubation for 16 h at 25°C. Soluble in 50 mM Tris, 2 mM calcium acetate, pH 8.0. pH optimum 7.5–12.0.
- Lyophilized solid. EC 3.4.21.14, CAS 39450-01-6, M.W. 28,500.

70856 RNase A Solution

Minimum Quantity: 100 ml

- RNase A Solution is a highly purified preparation of bovine pancreatic ribonuclease that is suitable for selective removal of RNA in plasmid purification procedures.
- 10 mg/ml in 10 mM Tris-HCl, 1 mM EDTA, 50% glycerol, pH 7.5. Custom formulations and concentrations available.

556746 Ribonuclease A, Bovine Pancreas (RNase A) Minimum Quantity: 1000 KU

- Chromatographically purified pyrimidine-specific endoribonuclease that acts on single-stranded RNA.
- One unit is defined as the amount of enzyme that will catalyze the hydrolysis of RNA to yield a first-order velocity constant equal to 1.0 at 25°C, pH 5.0.
- Purity: $> 95\%$ Contaminants: protease, none detected. May contain trace amounts of DNase I, which can be inactivated by boiling for 15 minutes in 50 mM potassium acetate, pH 5.5.
- White lyophilized solid. PROTECT FROM MOISTURE. Soluble in H₂O. EC 3.1.4.22, RTECS RF0760000, CAS 9001-99-4, M.W. 13,683. Note: 1 KU = 1000 units.

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