





CRISPR/Cas9 Nucleases

RNA-guided endonuclease Cas9 associated with Type II CRISPR/Cas systems.

- Ideal for DNA editing
- Streptococcus pyogenes Cas9 nuclease

No. 9000S CRISPR/Cas9 nuclease; 1,000 pmol; Concentration: 10 pmol/µL No. 9000L CRISPR/Cas9 nuclease; 5,000 pmol; Concentration: 10 pmol/μL



RNase Inhibitor (RI)

Suitable for use in isothermal amplification, molecular diagnostic assays, cDNA synthesis, and other applications where RNA stability is important.

- 50 kDa protein that specifically inhibits RNases A, B, and C
- No inhibition of polymerase activity when used with Taq DNA polymerase, AMV, M-MuLV, HIV reverse transcriptases, or phage RNA polymerases

No. 3001S RNase Inhibitor; 6,000 U; Concentration: 40,000 U/mL No. 3001L RNase Inhibitor; 30,000 U; Concentration: 40,000 U/mL



Cod Uracil-DNA glycosylase (cUNG)

Recombinant, thermolabile enzyme for removal of uracil from DNA.

- Ideal for preventing carryover contamination during RNA or DNA amplification
- Only commercially available UNG that is heat-liable

No. 4000S Cod Uracil-DNA glycosylase; 2,000 Units; Concentration: 50 U/µL No. 4000L Cod Uracil-DNA glycosylase; 10,000 Units; Concentration: 50 U/μL



T4 gene 32 protein (T4 gp32)

Single-stranded DNA binding (ssDNA) protein required for bacteriophage T4 replication and repair.

- Stabilizes ssDNA structures and improve restriction digests.
- Improves T4 DNA polymerase activity and yield of PCR reactions, including those with long amplicons

No. 3200S T4 gp32 SSB; 200 μ g; Concentration: 10 μ g/ μ L No. 3200L T4 gp32 SSB; 1,000 μ g; Concentration: 10 μ g/ μ L























MS2 Phage

E. coli bacteriophage with a single-stranded RNA genome of 3569 nucleotides protected from nuclease degradation by a capsid of 180 coat protein monomers.

- Useful as a process control in nucleic acid-based amplification techniques like RT-PCR, RT-LAMP, particularly those that involve viral RNA extraction
- Virus is a Biosafety Level 1 organism, is not pathogenic to humans

No. 6000S MS2 phage; 1E9 particles; Concentration: 1E10 particles/mL No. 6000L MS2 phage; 5E10 particles; Concentration: 1E11 particles/mL



VariSafe™ RNA Controls

Nuclease-resistant, single-stranded RNAs. Suitable as internal controls for RNA extraction from various sample matrices and internal control in amplification reactions or next generation sequencing.

- Non-infectious, MS2 phage-like particles that protect their contents from degradation by nucleases
- Can package sequences of up to 1.5 kb

No. 1001S RNA SARS-CoV-2 (Wuhan-Hu-1) N gene, 1E6 copies; Concentration 1E4 cp/µL

No. 1001L RNA SARS-CoV-2 (Wuhan-Hu-1) N gene, 1E10 copies; Concentration 1E7 cp/µL

No. 1002S RNA SARS-CoV-2 (Wuhan-Hu-1) N gene with human RNase P gene (RPP30), 1E6 copies; Concentration 1E4 cp/μL

No. 1002L RNA SARS-CoV-2 (Wuhan-Hu-1) N gene with human RNase P gene (RPP30), 1E10 copies; Concentration 1E7 cp/ μ L

No. 1101S RNA FMDV polyprotein (consensus), 1E6 copies; Concentration 1E4 cp/µL

No. 1101L RNA FMDV polyprotein (consensus), 1Ε10 copies; Concentration 1Ε7 cp/μL

No. 1106S RNA FMDV polyprotein (consensus) with Bos taurus 18S rDNA, 1E6 copies; Concentration 1E4 cp/µL

No. 1106L RNA FMDV polyprotein (consensus) with Bos taurus 18S rDNA, 1E10 copies; Concentration 1E7 cp/µL

No. 1201S RNA HIV-1 gag gene, 1E6 copies; Concentration 1E4 cp/μL

No. 1201L RNA HIV-1 gag gene, 1E10 copies; Concentration 1E7 cp/μL















