



NxGen™ Genomic Grade Enzymes

Exceptional Performance for Demanding Applications

- High sensitivity for DNA/RNA sequencing & array analysis.
- 99% purity for consistency and reliability.
- Industry-leading value and quality.

Polymerases

Phi29 DNA Polymerase » Excellent strand displacement, fidelity and speed.

M-MuLV Reverse Transcriptase » Outstanding cDNA synthesis.

T7 RNA Polymerase » The gold standard for RNA transcription.

T7 DNA Polymerase » Lightning fast and high fidelity DNA synthesis.

Terminal Transferase » Effective end modification and labeling.

Ligases

T4 DNA Ligase » Reliably join double-stranded nucleic acid chains. Available in standard concentration or Rapid Kit.

T4 RNA Ligase » Ligate ssDNA or ssRNA strands with one enzyme.

Also available:

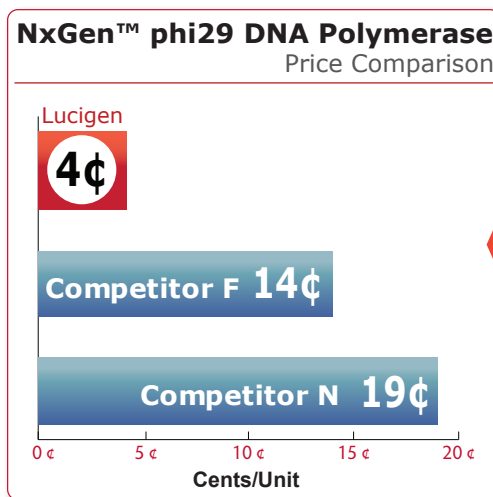
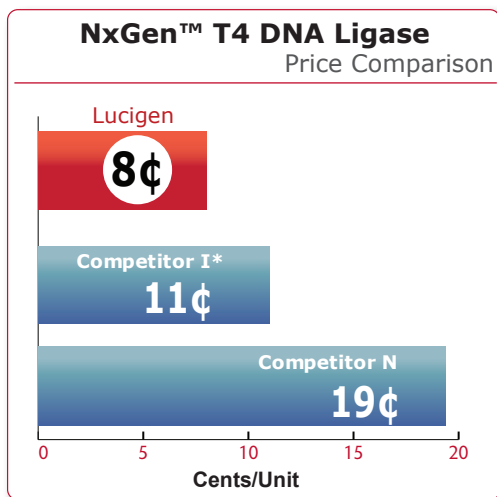
Genomic-grade RNase Inhibitor

Nucleases

Lambda Exonuclease » Modify diverse 5' ends of dsDNA.

Exonuclease I » Remove nucleotides from the 3' end of ssDNA.

Exonuclease III » Create 5' overhangs with ease.



Quality & Price Advantage
Actual examples of the savings you can expect.

*Converted into equivalent units.

NxGen™ Genomic Grade Enzymes cont.

Products	Size	Cat. No.	Price
NxGen™ phi29 DNA Polymerase	2,000 U	30221-1	\$99
	10,000 U	30221-2	\$399

ORDER INFORMATION

Supplied at 10,000 U/mL in 10 mM Tris-HCl, 100 mM KCl, 0.1 mM EDTA, 1 mM dithiothreitol, 0.5% Tween-20, 0.5% NP-40, 50% glycerol, pH 7.4 @ 25°C. Also supplied is 10X phi29 DNA Polymerase Buffer composed of 500 mM Tris-HCl, 100 mM (NH₄)₂SO₄, 40 mM Dithiothreitol, 100 mM MgCl₂, pH 7.5 @ 25°C. 10,000 U is supplied as 5 × 2,000 U.

This product is sold for *in vitro* research use only under license from Brookhaven National Laboratory, U.S. Patent Nos. 4,952,496; 5,693,489; and 5,869,320.

Products	Size	Cat. No.	Price
NxGen™ T4 DNA Ligase (Low Concentration)	100,000 U	30241-1	\$99
	500,000 U	30241-2	\$399
NxGen™ T4 DNA Ligase (High Concentration) Rapid Kit	150 rxns	30243-1	\$149
	750 rxns	30243-2	\$599

ORDER INFORMATION

Enzyme is provided in 10 mM Tris-HCl, 50 mM NaCl, 1 mM dithiothreitol, 0.1 mM EDTA, 50% glycerol, pH 7.5 @ 25°C.

This product is sold for *in vitro* research use only under license from Brookhaven National Laboratory, U.S. Patent Nos. 4,952,496; 5,693,489; and 5,869,320.

Products	Size	Cat. No.	Price
NxGen™ T7 DNA Polymerase	2,000 U	30224-1	\$99
	10,000 U	30224-2	\$399

ORDER INFORMATION

Supplied at 10,000 U/mL in 50 mM KPO₄, 0.1 mM EDTA, 1.0 mM dithiothreitol, 50% glycerol, pH 7.0 @ 25°C. Also provided is 10X T7 DNA Polymerase Buffer, which in 1X form is 40 mM Tris-HCl, 20 mM MgCl₂, 50 mM NaCl, pH 7.5 @ 25°C. 10,000 U is supplied as 5 × 2,000 U.

Products	Size	Cat. No.	Price
NxGen™ M-MuLV Reverse Transcriptase	50,000 U	30222-1	\$99
	250,000 U	30222-2	\$399

ORDER INFORMATION

Supplied at 200,000 U/mL in 50 mM Tris-HCl, 150 mM NaCl, 0.1 mM EDTA, 1 mM dithiothreitol, 0.1% NP-40 Alternative, 50% glycerol, pH 7.6 @ 25°C. Also provided is 10X M-MuLV RT Buffer which in 1X form is composed of 50 mM Tris-HCl, 75 mM KCl, 3 mM MgCl₂, 10 mM dithiothreitol, pH 8.3 @ 25°C. 250,000 U is supplied as 5 × 50,000 U.

Products	Size	Cat. No.	Price
T4 DNA Polymerase, Exonuclease Minus	300 U	30085-1	\$90
	1,500 U	30085-3	\$395

ORDER INFORMATION

Recombinant T4 DNA Polymerase, Exonuclease Minus is supplied at a concentration of 3,000U/ml in a storage buffer of 50% glycerol, 100 mM KPO₄ (pH 6.5) and 1 mM DTT. Also supplied is 10X DNA Polymerase Buffer A composed of 100 mM Tris-HCl (pH7.9), 100 mM MgCl₂, 500 mM NaCl and 10 mM DTT. 1,500 U is supplied as 5 × 300 U.

Products	Size	Cat. No.	Price
NxGen™ Terminal Transferase	3,000 U	30225-1	\$99
	15,000 U	30225-2	\$399

ORDER INFORMATION

Supplied at 20,000 U/mL in 50 mM KPO₄, 100 mM NaCl, 1.0 mM DTT, 0.1mM EDTA, 0.1% Triton X-100, 50% Glycerol, pH 7.3 @ 25°C. Also provided is 2.5 mM CoCl₂ and 10X Terminal Transferase Buffer which in 1x form is composed of 20 mM Tris -Acetate, 50 mM Potassium Acetate, 10 mM Magnesium Acetate, 1 mM DTT, pH 7.9 @ 25°C. 15,000 U is supplied as 5 × 3,000 U.

For a complete selection, visit:



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