

NxGen™ T4 DNA Ligase High Concentration Rapid Kit Part no. 30243

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

10X T4 DNA Ligase Buffer is composed of 500mM Tris-HCl, 100 mM MgCl₂, 50 mM dithiothreitol, 10 mM ATP, pH 7.6 @ 25°C.

2X Rapid Ligation Buffer is composed of 132mM Tris-HCl, 20 mM MgCl₂, 2 mM dithiothreitol, 2 mM ATP, 15% PEG, pH 7.6 @ 25°C.

Source: A recombinant *E. coli* strain carrying the T4 DNA Ligase gene.

Unit Concentration	600,000 U/mL
Purity (SDS-PAGE)	>99%
SS Exonuclease	6,000 U <0.1% released
DS Exonuclease	6,000 U <0.1% released
Endonuclease	6,000 U <0.1% converted
<i>E.coli</i> 16S rDNA Contamination	3,000 U <10 copies
Storage	-20°C

