



# Certificate of Analysis

## T4 DNA Polymerase Protein, T4 phage (His)

Cat. No.:	HY-P78940
Batch No.:	276495
Species:	Others
Source:	<i>E. coli</i>
Tag:	N-6*His
Accession:	P04415
Gene ID:	1258685
Molecular Weight:	Approximately 103.6 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Biological Activity	The specific activity is ≥3000 U/mL. Unit Definition: One unit is defined as the amount of enzyme that catalyzes the incorporation of deoxyribonucleotids(dNTPs) into polynucleotides at 37 °C for 30 minutes. Reaction Buffer: 50 mM NaCl, 10 mM Tris-HCl, 10 mM MgCl, PH 7.9 at 25°C	3146 U/mL
Appearance	Solution.	
Concentration	0.8 mg/mL	
Reconstitution	N/A.	
Storage & Stability	Stored at -20°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -20°C for extended storage. Avoid repeated freeze-thaw cycles.	
Shipping	Room temperature in continental US; may vary elsewhere.	

**Caution: Product has not been fully validated for medical applications. For research use only.**

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