

Certificate of Analysis

Pfu DNA Polymerase | EV-MOL-006

Product Name	Pfu DNA Polymerase	Lot Number	EZV-PF-2604-001
Catalog Number	EV-MOL-006	Manufacture Date	April 2026
Size	500 U / 2,500 U	Expiration Date	April 2028
Storage Condition	-20°C	Release Date	April 2026

Product Specifications

Test / Parameter	Specification	Lot Result	Status
Purity (SDS-PAGE)	>95% (single band at ~92 kDa)	96.2%	PASS
Molecular Weight	~92 kDa (SDS-PAGE)	92 kDa	PASS
Concentration	2.5 U/μL	2.6 U/μL	PASS
PCR Activity	Specific amplification of 1 kb product from human genomic DNA (30 cycles)	Single band DNA (60 cycles)	PASS
Error Rate	<2 × 10 ⁻⁶ per bp (fidelity assay)	1.3 × 10 ⁻⁶	PASS
Blunt-end Fidelity	No non-templated 3'-A addition detected	None detected	PASS
Thermostability	>95% activity retained after 95°C, 30 cycles	>95%	PASS
Exonuclease Contamination	No detectable degradation (λDNA, 200 U, 4 h, 37°C)	None detected	PASS
Endonuclease Activity	No nicking of supercoiled pUC19 (200 U, 4 h, 37°C)	None detected	PASS
RNase Activity	No degradation of 5 μg RNA (200 U, 2 h, 37°C)	None detected	PASS
pH (formulation buffer)	7.6–8.2	7.9	PASS
Sterility	No microbial growth (7-day incubation)	No growth	PASS

Formulation Buffer

20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 50% glycerol.

Unit Definition

One unit (U) is defined as the amount of Pfu DNA Polymerase required to incorporate 10 nmol of dNTP into acid-insoluble material in 30 minutes at 72°C in a 50 μL reaction containing 10 μg activated calf thymus DNA and 200 μM each dNTP.

Quality Release Statement

This lot of Pfu DNA Polymerase (EV-MOL-006) has been tested according to the specifications listed above and meets all release criteria. This Certificate of Analysis is issued by Enzoverta Life Sciences LLC Quality Assurance department.

Quality Assurance Signature:

Date Issued: April 2026

QA Director, Enzoverta Life Sciences LLC

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