

Certificate of Analysis

EV5™ High-Fidelity DNA Polymerase | EV-MOL-007

Product Name	EV5™ High-Fidelity DNA Polymerase	Lot Number	EZV-EV5-2604-001
Catalog Number	EV-MOL-007	Manufacture Date	April 2026
Size	100 U / 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 ~99 kDa)	96.9%	PASS
Molecular Weight	~99 kDa (SDS-PAGE)	99 kDa	PASS
Concentration	2 U/μL	2.1 U/μL	PASS
PCR Activity (1 kb)	Single band from 1 ng human genomic DNA, 30 cycles	Single band	PASS
Long-range PCR (10 kb)	Successful amplification of 10 kb target from genomic DNA	Correct DNA	PASS
Error Rate	<1 × 10 ⁻⁶ per bp (lacZ fidelity assay)	<1 × 10 ⁻⁶	PASS
Blunt-end Fidelity	No non-templated 3'-A addition detected	None detected	PASS
Thermostability	>95% activity after 98°C, 35 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 EV5™ 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 EV5™ High-Fidelity DNA Polymerase (EV-MOL-007) 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

© 2026 Enzoverta Life Sciences LLC. For Research Use Only.