

Certificate of Analysis

ParaScript Reverse Transcriptase | EV-MOL-008

Product Name	ParaScript Reverse Transcriptase	Lot Number	EZV-RT-2604-001
Catalog Number	EV-MOL-008	Manufacture Date	April 2026
Size	1,000 U / 5,000 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 ~75 kDa)	96.1%	PASS
Molecular Weight	~75 kDa (SDS-PAGE)	75 kDa	PASS
Concentration	50 U/μL	51 U/μL	PASS
RT Activity	Full-length cDNA of 3 kb mRNA in 30 min at 50°C	Full-length band confirmed	PASS
RNase H Activity	Reduced ($\leq 10\%$ of wild-type MMLV-RT at 37°C)	<8% wild-type	PASS
Thermostability	Active at 55°C for 60 min; >80% activity retained	>85%	PASS
Exonuclease Contamination	No detectable degradation (λ DNA, 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 (contamination)	No degradation of 5 μg RNA (200 U, 2 h, 37°C)	None detected	PASS
pH (formulation buffer)	8.1–8.5	8.3	PASS
Sterility	No microbial growth (7-day incubation)	No growth	PASS

Formulation Buffer

50 mM Tris-HCl (pH 8.3), 75 mM KCl, 3 mM MgCl₂, 10 mM DTT, 50% glycerol.

Unit Definition

One unit (U) is defined as the amount of ParaScript Reverse Transcriptase required to incorporate 1 nmol of dTMP into acid-insoluble material in 10 minutes at 37°C in a 50 μL reaction containing poly(A)-oligo(dT) template-primer and 200 μM [methyl-³H]-dTTP.

Quality Release Statement

This lot of ParaScript Reverse Transcriptase (EV-MOL-008) 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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