

# Certificate of Analysis

Hyperactive Tn5 Transposase | EV-MOL-009

<b>Product Name</b>	Hyperactive Tn5 Transposase	<b>Lot Number</b>	EZV-TN5-2604-001
<b>Catalog Number</b>	EV-MOL-009	<b>Manufacture Date</b>	April 2026
<b>Size</b>	50 µg / 250 µg	<b>Expiration Date</b>	April 2028
<b>Storage Condition</b>	-20°C	<b>Release Date</b>	April 2026

## Product Specifications

Test / Parameter	Specification	Lot Result	Status
Purity (SDS-PAGE)	>95% (single band at ~53.3 kDa)	96.4%	PASS
Molecular Weight	~53.3 kDa (SDS-PAGE)	53.3 kDa	PASS
Concentration	1 µg/µL	1.02 µg/µL	PASS
Tagmentation Activity	Fragment distribution 150–1,000 bp from 10 ng $\lambda$ DNA (Agilent analysis)	150–600 bp (Agilent analysis)	PASS
Adapter Incorporation Fidelity	>95% reads with correct ME adapter sequence (sequencing QC)	97%	PASS
Unbiased Coverage	GC-AT bias <0.1 in genome-wide sequencing (non-biased)	0.05	PASS
Exonuclease Contamination	No detectable degradation ( $\lambda$ DNA, 200 U, 4 h, 37°C)	None detected	PASS
Endonuclease Activity (non-specific)	No non-specific 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)	7.0–7.4	7.2	PASS
Sterility	No microbial growth (7-day incubation)	No growth	PASS

### Formulation Buffer

100 mM HEPES pH 7.2, 0.2 M NaCl, 0.2 mM EDTA, 1 mM DTT, 0.1% Triton X-100, 10% glycerol.

### Unit Definition

Tn5 Transposase is quantified by protein mass (µg/µL) as determined by BCA assay and absorbance at 280 nm. Activity is expressed as tagmentation efficiency (fraction of input DNA fragmented to 150–1,000 bp in 5 min at 55°C) under standard conditions with pre-loaded ME adapters.

**Quality Release Statement**

This lot of Hyperactive Tn5 Transposase (EV-MOL-009) 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.