

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION

Product Name	VeraDye™ Terminator v3.1 Cycle Sequencing Kit
Catalog Number	EV-SGR-002
Category	Sanger Sequencing Reagent
Lot Number	LOT-PENDING — Enter lot number on release
Manufacturing Date	See product label
Expiry Date	See product label
Storage Conditions	-20°C, protect from light
Appearance	Pink fluorescent solution
Grade	Research Grade
Regulatory Status	For Research Use Only (RUO)

SPECIFICATIONS AND TEST RESULTS

Parameter	Specification	Test Method	Result	Pass/Fail
Sequencing Performance (Control Template)	≥900 bases at QV20 (pUC19 template, ABI 3730xl)	Capillary electrophoresis analysis with ABI 3730xl, KB Basecaller	928 bases at QV20	PASS
Signal Uniformity (A:C:G:T)	Peak height ratio 0.8-1.2 for all four dyes	Fluorescence intensity measurement, bases 100-500	A:C:G:T = 1.0:0.95:1.03:0.98	PASS
Dye Blob Intensity	≤5% of average signal intensity (bases 50-400)	Peak detection at dye front region (0-50 bases)	3.2% of average signal	PASS
GC-Rich Template Performance	≥750 bases at QV20 (70% GC control template)	High GC template sequencing, ABI 3730xl analysis	782 bases at QV20	PASS
Homopolymer Accuracy	≥95% correct calls in 8-12 base homopolymer regions	Poly-A and Poly-T control template analysis	97.3% accuracy (n=24 homopolymers)	PASS
Enzyme Activity (Cycle Sequencing)	≥25 successful cycles with linear amplification	Real-time fluorescence monitoring during thermal cycling	28 cycles with R ² > 0.98	PASS
Sterility	No bacterial or fungal growth	USP <71> Sterility Test, 14-day incubation	No growth detected	PASS

RELEASE AUTHORISATION

QC Status	RELEASED — Meets Enzoverta Life Sciences specifications
Authorised By	Enzoverta Quality Control Department
Issue Date	2026-05-07
Document Number	CoA-EV-SGR-002-LOT-PENDING

This Certificate of Analysis confirms that the above product lot meets Enzoverta Life Sciences quality specifications at the time of manufacture. For technical assistance, contact techsupport@enzovera.com.
For Research Use Only. Not for use in diagnostic procedures.