

Certificate of Analysis

AmpliTaq™ DNA Polymerase, LD (Low DNA) with Buffer II

Product No. N8080158, 10025674

Lot No. 2840471

Date of Manufacture 19-Jan-2024

Expiration Date 15-Jan-2026

Enzyme Activity

Specification: 5.0 +/- 0.5 units/ul

Result: Meets specification

Microbial Bioburden

Specification: ≥ 100 CFU/mL

Result: Meets specification

Enzyme Amplification of Genomic DNA

Specification: One PCR product band at 800 base pairs is visualized on a gel indicating at least 1.5×10^5 fold amplification of genomic DNA

Result: Meets specification

Single-Stranded Endonuclease

Specification: $\leq 20\%$ degradation of M13mp19(+) strand DNA/ 8U enzyme compared to control

Result: Meets specification

Double-Stranded Endonuclease

Specification: $\leq 40\%$ conversion of PhiX174 RF DNA to Form II and $\leq 10\%$ conversion to Form III with 8 units of enzyme

Result: Meets specification

Exonuclease

Specification: 5' ds exonuclease assay: $\leq 2.0\%$ of termini released per unit of enzyme

Result: Meets specification

Specification: 3' ds exonuclease assay: $\leq 0.3\%$ of termini released per unit of enzyme

Result: Meets specification

Buffer Amplification of Genomic DNA

Specification: One PCR product band at 800 base pairs is visualized on a gel indicating at least 1.5×10^5 fold amplification of genomic DNA

Result: Meets specification

Buffer Magnesium Concentration

Specification: 25.0 +/- 2.5 mM

Result: Meets specification

For Research Use Only. Not for use in diagnostic procedures.

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