

# Certificate of Analysis

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

Product No. N8080158, 10025674

Lot No. 2809768

Date of Manufacture 26-Sep-2023

Expiration Date 10-May-2025

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### Enzyme Activity

Specification: 5.0 +/- 0.5 units/ul

Result: Meets specification

### Microbial Bioburden

Specification:  $\geq 100$  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  $1.5 \times 10^5$  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  $1.5 \times 10^5$  fold amplification of genomic DNA

Result: Meets specification

## Buffer Magnesium Concentration

Specification: 25.0 +/- 2.5 mM

Result: Meets specification

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