

# Certificate of Analysis

## AmpliTaq™ DNA Polymerase with Buffer I

Product No. N8080152, 10458064

Lot No. 2854775

Date of Manufacture 13-May-2024

Expiration Date 06-May-2026

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### Enzyme Activity

Specification: 5.0 +/- 0.5 units/ul

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 I Magnesium Concentration

Specification: 13.5 - 17.0 mM

Result: Meets specification

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