

# Certificate of Analysis

## AmpliTaq™ DNA Polymerase with Buffer II

Product No. N8080153, 10762507

Lot No. 3003530

Date of Manufacture 29-Aug-2024

Expiration Date 06-May-2026

---

### 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 Magnesium Concentration

Specification: 25.0 +/- 2.5 mM

Result: Meets specification

---

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

Thermo Fisher Scientific  
Life Sciences Solutions  
5781 Van Allen Way  
Carlsbad, CA, USA 92008  
<https://www.thermofisher.com>  
For inquiries, contact us at [cofarequests@thermofisher.com](mailto:cofarequests@thermofisher.com)



Chevohn Joseph  
Director, Quality  
Issued on 03-Sep-2024