

CERTIFICATE OF ANALYSIS

N8080249 AmpliTaq Gold™ DNA Polymerase with Buffer II and MgCl₂

Packaging Lot: 2809927

Expire Date: 08.2025

Filling lots for components in package:

Lot	Description
2808356	AmpliTaq Gold DNA Polymerase, 1000 units
2806360	10X PCR Buffer II
2778611	25 mM MgCl ₂

QUALITY CONTROL

TEST	SPECIFICATION	RESULT
AMPLITAQ GOLD DNA POLYMERASE		
ANALYTICAL TEST		
Polymerase activity	5.0 - 6.5 U/μL	Pass
Purity (HPLC - UV detection)	≥ 95.0 %	Pass
Purity (HPLC - fluorimetric detection)	≥ 95.0 %	Pass
Purity (SDS PAGE)	≥ 95.0 %	Pass
Amplification efficiency of human genomic DNA	85 - 105 %	Pass
Human DNA	≤ 2 copies / 10 U	Pass
Bacterial DNA	≤ 1 copy E.coli DNA / 5 U	Pass
ssDNA DNA nuclease (gel-based)	None detected / 40 U	Pass
dsDNA DNA nuclease (gel-based)	None detected / 40 U	Pass
RNase A equivalents (fluorimetric assay)	≤ 1.15 pg / 1 U	Pass
DNase I equivalents (fluorimetric assay)	≤ 155 pg / 1 U	Pass
10X PCR BUFFER II		
ANALYTICAL TEST		
K ⁺ concentration (HPIC)	425.0 – 575.0 mM	Pass
pH at 25°C	8.15 – 8.30	Pass
25 mM MgCl₂		

ANALYTICAL TEST

MgCl₂ concentration (HPIC)

22.50 – 27.50 mM

Pass

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

ISO CERTIFICATION

Manufactured by Thermo Fisher Scientific Baltics UAB, in compliance with ISO 9001 and ISO 13485 certified quality management systems.

Quality authorized by QC: **J. Žilinskienė**

