

**CERTIFICATE OF ANALYSIS**
**N8080249 AmpliTaq Gold™ DNA Polymerase with Buffer II and MgCl<sub>2</sub>**

Packaging Lot: 2816604

Expire Date: 08.2025

**Filling lots for components in package:**

Lot	Description
2795642	AmpliTaQ Gold DNA Polymerase, 1000 units
2803883	10X PCR Buffer II
2810269	25 mM MgCl <sub>2</sub>

**QUALITY CONTROL**

TEST	SPECIFICATION	RESULT
<b>AMPLITAQ GOLD DNA POLYMERASE</b>		
<b>ANALYTICAL TEST</b>		
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
<b>10X PCR BUFFER II</b>		
<b>ANALYTICAL TEST</b>		
K <sup>+</sup> concentration (HPIC)	425.0 – 575.0 mM	Pass
pH at 25°C	8.15 – 8.30	Pass
<b>25 mM MgCl<sub>2</sub></b>		

#### ANALYTICAL TEST

MgCl<sub>2</sub> 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**

