

## CERTIFICATE OF ANALYSIS

**14966005 Platinum™ II Taq Hot-Start DNA Polymerase**

**Packaging Lot: 2957003**

Expiry Date: 31.12.2025 (DD.MM.YYYY)

Storage: at -20±5°C

### Filling lots for components in package:

Lot	Quantity	Description
2901923	0.2 mL	Platinum II Taq Hot-Start DNA Polymerase
2923761	4 × 1.25 mL	Platinum GC Enhancer
2901924	4 × 1.25 mL	5X Platinum II PCR Buffer

### QUALITY CONTROL

Parameter	Method	Requirement	Result
Enzyme Activity	Polymerase activity measured by labeled nucleotide incorporation into template DNA.	5.5 ± 0.5 U/μL	Conforms
Functional assay	Amplification of a 3.9 kbp DNA fragment using dilution series of human genomic DNA.	Reaction produces specific PCR product	Conforms
Residual Activity assay	Extension of labeled double-stranded oligonucleotide with 5'-overhangs after incubation at 37°C in presence of dNTPs.	Not detectable	Conforms
Ribonuclease assay	Degradation of labeled RNA after incubation with Platinum II Taq DNA polymerase at 37°C.	Not detectable	Conforms
Endodeoxyribonuclease assay	Conversion of supercoiled plasmid DNA to nicked or linear form after incubation at 37°C.	Not detectable	Conforms
Residual bacterial DNA	qPCR using primers targeting 16S ribosomal RNA gene.	< 1 copy E. coli genome equivalent/ 1 U	Conforms
Residual human DNA	qPCR using primers targeting Alu sequence repeats.	< 0.2 copy / 1 U	Conforms

#### ISO CERTIFICATION

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

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

