

## CERTIFICATE OF ANALYSIS

### EP0401 Taq DNA Polymerase (rec.)

Packaging Lot: 3164756

Expiry Date: 31.10.2026 (DD.MM.YYYY)

Storage: at -20±5°C

### Filling lots for components in package:

Lot	Quantity	Description
3114583	0.1 kU	Taq DNA Polymerase (rec.)
3123205	0.6 mL	10X Taq Buffer with (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
3123204	0.6 mL	10X Taq Buffer with KCl
3130996	0.6 mL	25mM MgCl <sub>2</sub> for Taq DNA Pol

### QUALITY CONTROL

Parameter	Method	Requirement	Result
Concentration	One unit of the enzyme catalyzes the incorporation of 10 nmol of deoxyribonucleotides into a polynucleotide fraction in 30 min at 74 °C.	5.5±0.5 u/μl	Conforms
Endodeoxyribonucleases (nicking activity)	Incubation of supercoiled plasmid DNA with enzyme.	Not detectable	Conforms
Ribonucleases	Incubation of [3H]-RNA with enzyme.	Not detectable	Conforms
Endo-, exonucleases and phosphatases	Incubation of single stranded and double stranded labeled oligonucleotides with enzyme.	Not detectable	Conforms
Functional testing	PCR amplification of 956 bp single copy gene from human genomic DNA and analysis on agarose gel.	Reaction produces specific PCR product	Conforms
Functional testing in RT-PCR	Two step RT-PCR amplification of 496 bp product from of RNA transcript encoding human GAPDH gene and analysis on agarose gel.	Reaction produces specific PCR product	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

