

## CERTIFICATE OF ANALYSIS

### F-530L Phusion High-Fidelity DNA Polymerase, 500 U

**Packaging Lot:** 01012490

**Expiry Date:** 31.10.2023 (DD.MM.YYYY)

**Storage:** at -20±5°C

#### Filling lots for components in package:

Lot	Quantity	Description
00978967	0.5 ku	Phusion DNA Polymerase
00992497	2 x 1.5 mL	50 mM MgCl <sub>2</sub>
00987007	0.5 mL	DMSO
01009952	6 x 1.5 mL	5X Phusion HF Buffer
00987000	2 x 1.5 mL	5X Phusion GC Buffer

#### QUALITY CONTROL

Parameter	Method	Requirement	Result
Unit concentration	One unit of enzyme incorporates 10 nmoles of dNTPs into a polynucleotide fraction at 74 °C in 30 minutes.	2.0 ± 0.2 U/μL	Conforms
Endodeoxyribonucleases (nicking activity)	Incubation of supercoiled plasmid DNA with polymerase.	Not detectable	Conforms
Functional testing	PCR amplification of 7.5 kb fragments from human genomic DNA, 20 kb fragment from lambda DNA and analysis on agarose gel.	Reactions produce specific PCR products	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**

