

## CERTIFICATE OF ANALYSIS

**R0192**            **dNTP Mix, 10mM each**

**Packaging Lot:** 2942723

**Expiry Date:** 30.09.2025 (DD.MM.YYYY)

**Storage:** at -20±5°C

### Filling lots for components in package:

Lot	Quantity	Description
2906996	1 mL	dNTP Mix, 10mM each

### QUALITY CONTROL

Parameter	Method	Requirement	Result
pH (performed for each component separately)	Determined according to Ph. Eur. 2.2.3.	7.3 - 7.5	Conforms
Ratio of components in the mix	Ratio of dNTPs in the mix (1:1:1:1) is determined as a ratio of peak areas of each dNTP using HPLC.	1.00 ± 0.05	Conforms
Functional testing	PCR amplification of 5 kb fragment with Pfu DNA Polymerase from series of lambda DNA dilutions.	Reactions produces specific PCR products	Conforms
Purity (performed for each component separately)	Purity is determined by HPLC: detection under UV at 259 nm (dATP), 272 nm (dCTP), 253 nm (dGTP), 267 nm (dTTP).	≥ 99%	Conforms
Endo - and Exonucleases (performed for each component separately)	Incubation of single stranded and double stranded labeled oligonucleotides with dNTP.	Not detectable	Conforms
Ribonucleases (performed for each component separately)	Incubation of RNA transcript with dNTP.	Not detectable	Conforms
Endodeoxyribonuclease and nicking activity (performed for each component separately)	Incubation of supercoiled plasmid DNA with dNTP.	Not detectable	Conforms
E. coli DNA (performed for each component separately)	Quantitative PCR test, which uses amplification of E.coli 23S rRNA gene fragment.	Not detectable	Conforms
Human DNA (performed for each component separately)	Quantitative PCR test, which uses amplification of Alu repeats in human genomic DNA.	Not detectable	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**

