



CERTIFICATE OF ANALYSIS

dNTP Mix, 2mM each

molecular biology grade

#R0241 1.0ml

Lot:

Store at -20°C

In total 1 vial(s).

Description

dNTP Mix contains aqueous solution of dATP, dCTP, dGTP and dTTP, each at a final concentration of 2mM. The Mix offers the possibility to reduce the number of pipetting steps and the risk of reaction set up errors.

Applications

For direct use in PCR, long PCR, RT-PCR, cDNA synthesis, primer extension, DNA sequencing and DNA labeling.

The Polymerase Chain Reaction (PCR) process is covered by U.S. patents owned by Hoffman-La Roche.

PRODUCT USE LIMITATION.

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to www.fermentas.com for Material Safety Data Sheet of the product.

(2) Revised 26.10.2005

QUALITY CONTROL ASSAY DATA

Method	Specification	Result
Purity Assay of Each Component		
HPLC (column C18; detection UV; mobile phase: A=TEAA 0.1M, pH 7.0; B=60% CH ₃ CN/A)	>99%	dATP 99.2% dCTP 99.0% dGTP 99.3% dTTP 99.3%
LO test (test for detection of exo-, endo-deoxyribonuclease and phosphatase contaminants)	Not detectable	passed
Ribonuclease assay (test for detection of RNase contaminants using [³ H]-RNA as a substrate)	Not detectable	passed
Function Assay		
PCR with <i>Pfu</i> and <i>Taq</i> DNA Polymerases	Production of 1000 bp PCR fragment from 2ng of genomic DNA	passed
pH		
	7.0 ± 0.1	Á
Concentration		
Spectrometry	2mM dNTP Mix (each at a final concentration of 2mM)	Mix of: dATP 2mM dCTP 2mM dGTP 2mM dTTP 2mM

Quality authorized by:

 Jurgita Zilinskiene

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