



## CERTIFICATE OF ANALYSIS

# dNTP/dUTP Mix,

molecular biology grade

#R0251      1.0ml

Lot:

Store at -20°C

In total 1 vial.

### ***Description***

dNTP/dUTP Mix is aqueous solution containing dATP, dCTP, dGTP, each at a final concentration of 2mM and dUTP of 4mM.

### ***Applications***

Ready-to-use in PCR with *Taq* DNA Polymerase.

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](http://www.fermentas.com) for Material Safety Data Sheet of the product.

Revised 26.10.2005

# QUALITY CONTROL ASSAY DATA

Method	Specification	Result
<b>Purity Assay of Each Component</b>		
<b>HPLC</b> (column C18; detection UV; mobile phase: A=TEAA 0.1M, pH 7.0; B=60% CH <sub>3</sub> CN/A)	>99%	dATP 99.3% dCTP 99.4% dGTP 99.0% dUTP 99.6%
<b>LO test</b> (test for detection of exo-, endo-deoxyribonuclease and phosphatase contaminants)	Not detectable	passed
<b>Ribonuclease assay</b> (test for detection of RNase contaminants using [ <sup>3</sup> H]-RNA as a substrate)	Not detectable	passed
<b>Function Assay</b>		
<b>PCR with <i>Taq</i> DNA Polymerase</b>	Production of 1000 bp PCR fragment from 2ng of genomic DNA	passed
<b>pH</b>		
	7.0 ± 0.2	Á
<b>Concentration</b>		
<b>Spectrometry</b>	Mix of: dATP 2mM dCTP 2mM dGTP 2mM dUTP 4mM	Mix of: dATP 2mM dCTP 2mM dGTP 2mM dUTP 4mM

Quality authorized by:

 Jurgita Zilinskiene

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