



## CERTIFICATE OF ANALYSIS

# dNTP Mix, 25mM each, molecular biology grade

**#R1122**      5x0.1ml

**Lot:**

**Store at -20°C**

In total 5 vial(s).

## Description

dNTP Mix contains aqueous solution of dATP, dCTP, dGTP and dTTP, each at a final concentration of 25mM. 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.

## Important Note

- Mix well each dNTP solution prior to use.
- To get 0.2mM dNTP in PCR  
add:
  - 0.2µl of 25mMdNTP Mix for 25µl of PCR volume;
  - 0.4µl of 25mMdNTP Mix for 50µl of PCR volume;
  - 0.8µl of 25mMdNTP Mix for 100µl of PCR volume.

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.



# 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 99.1% dCTP 99.0% dGTP 99.0% dTTP 99.2%
<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>Pfu</i> and <i>Taq</i> DNA Polymerases</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>	dNTP Mix (each at a final concentration of 25mM)	Mix of: dATP 25mM dCTP 25mM dGTP 25mM dTTP 25mM

Quality authorized by:

 Jurgita Zilinskiene

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