

CERTIFICATE OF ANALYSIS

dTTP, molecular biology grade

#R0171 25

25 µmol

Lot: Expiry Date:

Concentration: Volume: Formula: Molecular Weight:

100 mM 0.25 ml $C_{10}H_{14}N_{2}O_{14}P_{3}Na_{3}$ 548.1

Store at -20°C

In total 1 vial.

Description

dTTP (2'-deoxythymidine 5'-triphosphate) is supplied as a 100 mM aqueous solution at pH 7.0.

Applications

For use in PCR, long PCR, RT-PCR, cDNA synthesis, primer extension, DNA sequencing, 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 <u>www.fermentas.com</u> for Material Safety Data Sheet of the product.



QUALITY CONTROL ASSAY DATA

Method	Specification	Result
Purity Assay		
HPLC (column C18; detection UV at 267; mobile phase: A=TEAA 0.1 M, pH 7.0; B=60% CH ₃ CN/A)	≥99%	Conforms
LO test (test for detection of exo-, endo-deoxyribonuclease contaminants)	Not detectable	Conforms
Ribonuclease assay (test for detection of RNase contaminants using 2000 base RNA transcript as a substrate)	Not detectable	Conforms
Function Assay		
PCR	PCR amplification of a 354 bp fragment from 50 pg of human genomic DNA	Conforms
рН		
	7.0-7.5	Conforms
Concentration		
Spectrometry (λ_{max} 267 nm; $\epsilon = 9.6x10^3 \text{ M}^{-1}\text{cm}^{-1}$ at pH 7.0)	100±5 mM	Conforms

Quality authorized by:

