



CERTIFICATE OF ANALYSIS

dITP, molecular biology grade

#R1191 25µmol

Lot:

Concentration: 100mM
Volume: 0.25ml
Formula: $C_{10}H_{12}N_4O_{13}P_3Na_3$
Molecular Weight: 558.1

Store at -20°C

In total 1 vial.

Description

dITP (2'-deoxyinosine 5'-triphosphate) is supplied as 100mM aqueous solution titrated to pH 7.0 with NaOH.

Applications

For use in all molecular biology applications, including PCR, RT-PCR, cDNA synthesis, primer extension and DNA sequencing.

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.

QUALITY CONTROL ASSAY DATA

Method	Specification	Result
Purity Assay		
HPLC (column C18; detection UV at 249; mobile phase: A=TEAA 0.1M, pH 7.0; B=60% CH ₃ CN/A)	>99%	99.1%
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>Taq</i> DNA Polymerase	Production of 1000 bp PCR fragment from 2ng of genomic DNA	passed
pH		
	7.0-7.5	
Concentration		
Spectrometry λ_{\max} 249nm; $\epsilon = 12.2 \times 10^3 \text{ M}^{-1} \text{ cm}^{-1}$ (pH 7.0)	100±5mM	100mM

Quality authorized by:

 Jurgita Zilinskiene