

dNTPs mix

#ET9013: 1ml

Concentration: 10mM each

Store at -20°C

Description

Hy-dNTPs mix is aqueous solutions at pH 7.0 containing dATP, dCTP, dGTP and dTTP, each at a final concentration of 10 mM. Hy-dNTPs mix is ready-to-use solutions designed to save time and to provide higher reproducibility in PCR and other applications. 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.

QUALITY CONTROL ASSAY DATA

Method	Specification	Result
Purity Assay		
HPLC column C18; detection UV(at corresponding λ_{max}); mobile phase: A=TEAA 0.1M, pH 7.0; B=60% CH ₃ CN/A)	>99%	dATP 99.2% dCTP 99.0% dGTP 99.0% dTTP 99.4%
LO test (test for detection of exo-,endo-deoxyribonuclease and phosphatase contaminants)	Not detectable	passed
Ribonuclease assay (test for detection of RNase contaminants using [3H]-RNA as a substrate)	Not detectable	passed
Functional Assay		
PCR with High Fidelity and Taq DNA Polymerases	Production of 1000 bp PCR fragment from 2ng of genomic DNA	passed

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pH 7.0-7.5

Concentration		
Spectrophotometry	100±5mM	dATP 100mM dCTP 100mM dGTP 99mM dTTP 100mM

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