dNTP Set

For Research Use Only

Product: dNTP Set, Molecular Biology Grade Cat. No.: MM۲۱۳۱ Concentration: ייmM Store at -۲°C

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Description:

The set consists of $1 \cdot \cdot mM$ aqueous solutions of dATP, dCTP, dGTP and dTTP each in a separate vial. Since the nucleotides are provided as sepa-rate solutions, the dNTP Set offers maximum flexibility in preparation of reaction mixes for different applications.

Applications:

For use in PCR, long PCR, RT-PCR, cDNA syn-thesis, primer extension, DNA sequencing, DNA labeling.

General Characteristics:

 $dATP C_1 \cdot H_1 r N_0 O_1 r P r Nar$ MW = 00V, Y

 $\lambda_{max} = 2000, T$

 $\varepsilon = 10, T \times 1.^{v} M^{-1} cm^{-1} at pH V,$

Y•·µl aqueous solutions of dATP, dCTP, dGTP and dTTP each in ٤ separate vials **Shipment:** Dry or Wet ice

 $dCTP C_{H_{1T}N_{T}O_{1T}P_{T}Na_{T}}$ $MW = \circ \tilde{T}T, 1$ $\lambda_{max} = TV1nm$ $\varepsilon = 9, T \times 1 \cdot TM^{-1}cm^{-1} at pH V, \cdot$

 $\begin{array}{l} \textbf{dGTP} & C_1 \cdot H_1 r \, N_0 O_1 r P_r Nar \\ MW = \circ V \tilde{r}, Y \\ \lambda_{max} = \tilde{r} \circ \tilde{r} nm \\ \epsilon = 1 \tilde{r}, V \times 1 \cdot \tilde{r} M^{-1} cm^{-1} \mbox{ at } pH \ V, \cdot \end{array}$

Quality Control Assay Data

Method	Specification	Result
Purity Assay		
HPLC column CY/C1A; detection UV (at Corresponding λ max); Mobile Phase: A=TEEA · ,)M, pH V, · ; B= 7 · % CHrCN/ HrO	>٩٨%	dATP ዓለ,እነ <i>%</i> dCTP ዓለ,ዓኖ <i>%</i> dGTP ዓለ,ገ٤ <i>%</i> dTTP ዓለ,۲ዓ <i>%</i>
LO test (test for detection of exo-, endo- deoxyribonuclease and phosphatase contaminations)	Not detectable	Passed
Ribonuclease assay (test for detection of RNase contaminants using Hr RNA as a substrate)	Not detectable	Passed
Function Assay		
PCR with Pfu DNA Polymerase	۰۰۰ bp from ۲ng of genomic DNA	Passed
PCR with Taq DNA Polymerase	۰۰۰ bp from ۲ng of genomic DNA	Passed
рН		
	٦,٥ _ ٧,٠	٧,.
Concentration		
Spectrometry	۲۰۰ ± °mM	dATP \- · mM dCTP \- · mM dGTP \- YmM dTTP ዓዓmM

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