

dNTP Set

NB-03-0203

dNTP Set

NB-03-0203, 25 μ mol \times 4
molecular biology grade

Components of the Set

dATP (100mM)	0.25 ml
dTTP (100mM)	0.25 ml
dCTP (100mM)	0.25 ml
dGTP (100mM)	0.25 ml

Store at -20°C

For research use only.

In total 4 vials.

Description

The set consists of 100mM aqueous solutions of dATP, dTTP, dCTP and dGTP each supplied in a separate vial. Since the nucleotides are provided separately, the dNTP Set offers maximum flexibility in preparation of reaction mixes for different applications.

Applications

For use in PCR, long PCR, RT-PCR, cDNA synthesis, primer extension, DNA sequencing, and DNA labeling.

General Characteristics

dATP $C_{10}H_{13}N_5O_{12}P_3Na_3$; MW = 557.2;
 $\lambda_{max}=259nm$; $\epsilon=15.2 \times 10^3 M^{-1}cm^{-1}$ at pH 7.0;

dGTP $C_{10}H_{13}N_5O_{13}P_3Na_3$; MW = 573.2;
 $\lambda_{max}=253nm$; $\epsilon=13.7 \times 10^3 M^{-1}cm^{-1}$ at pH 7.0.

dCTP $C_9H_{13}N_3O_{13}P_3Na_3$; MW = 533.1;
 $\lambda_{max}=271nm$; $\epsilon=9.3 \times 10^3 M^{-1}cm^{-1}$ at pH 7.0.

dTTP $C_{10}H_{14}N_2O_{14}P_3Na_3$; MW = 548.1;
 $\lambda_{max}=267nm$; $\epsilon=9.6 \times 10^3 M^{-1}cm^{-1}$ at pH 7.0.

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.

Important Note

Mix well each dNTP solution prior to use.

Preparation of dNTP mixtures from dNTP Set

dNTP mixture to be prepared	Volumes of dNTP Set, μ l				Water, nucleas e-free, μ l	Total volume of dNTP mixture, μ l
	100mM dATP	100mM dGTP	100mM dCTP	100mM dTTP		
2mM of each dNTP	10	10	10	10	460	500
	100	100	100	100	4600	5000
	250	250	250	250	11500	12500
10mM of each dNTP	10	10	10	10	60	100
	100	100	100	100	600	1000
	250	250	250	250	1500	2500
25mM of each dNTP	10	10	10	10	-	40
	100	100	100	100	-	400
	250	250	250	250	-	1000

Getting 0.2mM dNTP for PCR

Volume of PCR mixture	dNTP Mixture to be added to PCR		
	2mM	10mM	25mM
25 μ l	2.5 μ l	0.5 μ l	0.2 μ l
50 μ l	5 μ l	1 μ l	0.4 μ l
100 μ l	10 μ l	2 μ l	0.8 μ l



Neo Biotech
74, rue des Suisses 92000 Nanterre - France