

Store at -20°C		
Cat. No.	Description	Quantity
G050	4x25µmol 100mM each	4x0.25ml

Description

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

-dCTP: $C_9H_{13}N_5O_{13}P_3Na_3$; MW = 533.1;
 $\lambda_{max}=271nm$; $\epsilon=9.3 \times 10^3 M^{-1}cm^{-1}$ 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

-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

Preparation of dNTP Mixtures from dNTP Set

dNTP Mixture to be prepared	Volumes of dNTP Set(µl)				Water, nuclease-free(µl)	Total Volume of dNTP Mixture(µl)
	100mM dATP	100mM dGTP	100mM dCTP	100mM dTTP		
2mM of each dNTP	10	10	10	10	460	500
	100	100	100	100	4,600	5,000
	250	250	250	250	11,500	12,500
10mM of each dNTP	10	10	10	10	60	100
	100	100	100	100	600	1,000
	250	250	250	250	1,500	2,500
25mM of each dNTP	10	10	10	10	-	40
	100	100	100	100	-	400
	250	250	250	250	-	1,000

This product is distributed for laboratory research only.

CAUTION: *Not for clinical use.*

For technical questions about this product, phone the ABM helpline at 1-866-571-7226 or visit our website at www.abmGood.com.