

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: $C_9H_{13}N_3O_{13}P_3Na_3$; MW = 533.1;
 $\lambda_{max}=271nm$; $\epsilon=9.3 \times 10^3 M^{-1}cm^{-1}$ at pH 7.0
- 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	10 100 250	10 100 250	10 100 250	10 100 250	460 4,600 11,500	500 5,000 12,500
10mM of each dNTP	10 100 250	10 100 250	10 100 250	10 100 250	60 600 1,500	100 1,000 2,500
25mM of each dNTP	10 100 250	10 100 250	10 100 250	10 100 250	- - -	40 400 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.