

Catalog No.: **D116**

Product Name: **dNTP PreMix**

Size: 500µl

Concentration: 10mM each (40mM total)

Storage: Store at -20°C.

Description: This package contains a mixture of 500µl of the four deoxyribonucleotide solutions (dATP, dCTP, dGTP and dTTP), each at 10mM. The nucleotides are supplied in sterile, doubly distilled water. The final concentrations for each of the four deoxyribonucleotides are:

dATP: 10mM dATP (2'-deoxyadenosine 5'-triphosphate, sodium salt) $C_{10}H_{12}N_5O_{12}P_3Na_4$
F.W. 579.2

dCTP: 10mM dCTP (2'-deoxycytidine 5'-triphosphate, sodium salt) $C_9H_{12}N_3O_{13}P_3Na_4$
F.W. 555.1

dGTP: 10mM dGTP (2'-deoxyguanosine 5'-triphosphate, sodium salt) $C_{10}H_{12}N_5O_{13}P_3Na_4$
F.W. 595.1

dTTP: 10mM dTTP (2'-deoxythymidine 5'-triphosphate, sodium salt) $C_{10}H_{13}N_2O_{14}P_3Na_4$
F.W. 570.1

Quality Control:

1. Nucleotide concentrations are determined by measurements of absorbency.
2. Deoxyribonucleotides are certified free of nucleases and phosphatases.
3. Functional purity is tested in Sanger dideoxy sequencing reactions, fill in of 5'-overhangs, and primer extensions, using Klenow and Taq DNA polymerase.
4. The physical purity of this preparation is determined by HPLC (minimum passing specification is >99% triphosphate).

Related Products	Catalog No.
• 100bp DNA Ladder	M107
• 1Kb DNA Ladder II	M108
• <i>Tsg</i> DNA Polymerase	D101
• <i>Taq</i> DNA Polymerase	D118
• DNA SafeStain	C138
• Standard-Agarose	A113

***This product is for research
use only.***