

Catalog No.: **D107**

Product Name: **dNTP Set**

Size: 4 x
40μmoles (4 x 400μl)

Concentration: 100mM

Storage: Store at -20°C.

Description: Four tubes with 400μl each of deoxyribonucleotide solution (dATP / dCTP / dGTP / dTTP) at 100mM in sterile, doubly distilled water. Final sodium concentration is 100mM. Dilute nucleotides in sterile, doubly distilled water.

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).

Kit Components:

100mM 400μl dATP:
(2'-deoxyadenosine 5'-triphosphate, sodium salt)
C₁₀H₁₂N₅O₁₂P₃Na₄ 579.2 100mM in sterile, deionized water (pH 7.5)

100mM 400μl dCTP:
(2'-deoxycytidine 5'-triphosphate, sodium salt)
C₉H₁₂N₃O₁₃P₃Na₄ F.W. 555.1 100mM in sterile, deionized water (pH 7.0)

100mM 400μl dGTP:
(2'-deoxyguanosine 5'-triphosphate, sodium salt)
C₁₀H₁₂N₅O₁₃P₃Na₄ F.W.595.1 100mM in sterile, deionized water (pH 7.5)

100mM 400μl dTTP:
(2'-deoxythymidine 5'-triphosphate, sodium salt)
C₁₀H₁₃N₃O₁₄P₃Na₄F.W. 570.1 100mM in sterile, deionized water (pH 7.0)

| Related Products | Catalog No. |
|----------------------|-------------|
| • dNTP PreMix | D116 |
| • Tsg DNA Polymerase | D101 |
| • Taq DNA Polymerase | D118 |
| • 100bp DNA Ladder | M107 |
| • 1Kb DNA Ladder II | M108 |
| • DNA SafeStain | C138 |
| • Standard-Agarose | A113 |

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