

**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)  
C<sub>10</sub>H<sub>12</sub>N<sub>5</sub>O<sub>12</sub>P<sub>3</sub>Na<sub>4</sub> 579.2 100mM in sterile, deionized water (pH 7.5)

100mM 400µl dCTP:

(2'-deoxycytidine 5'-triphosphate, sodium salt)  
C<sub>9</sub>H<sub>12</sub>N<sub>3</sub>O<sub>13</sub>P<sub>3</sub>Na<sub>4</sub> F.W. 555.1 100mM in sterile, deionized water (pH 7.0)

100mM 400µl dGTP:

(2'-deoxyguanosine 5'-triphosphate, sodium salt)  
C<sub>10</sub>H<sub>12</sub>N<sub>5</sub>O<sub>13</sub>P<sub>3</sub>Na<sub>4</sub> F.W.595.1 100mM in sterile, deionized water (pH 7.5)

100mM 400µl dTTP:

(2'-deoxythymidine 5'-triphosphate, sodium salt)  
C<sub>10</sub>H<sub>13</sub>N<sub>2</sub>O<sub>14</sub>P<sub>3</sub>Na<sub>4</sub>F.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.*