

## — PROTOCOL —

## 100 mM dNTP Set

Catalog Number	Unit Size	Reactions
DN001-0250	4 x 250 ul	

**Storage** : Store at -20°C

### Description

100 mM dNTP (2'-deoxynucleoside 5'-triphosphate) Set consists of all four deoxynucleotides (dATP, dCTP, dGTP, dTTP), each at a concentration of 100 mM. The deoxynucleotides are suitable for use in polymerase chain reaction (PCR), sequencing, fill-in, nick translation, cDNA synthesis, and TdT tailing reactions. The product is supplied as ready-to-use solutions.

The 100 mM dNTP Set includes 100 mM each of dATP, dCTP, dGTP, and dTTP. Each vial contains 250 ul of 25 umol dNTP in purified water (pH 7.5).

### Volumes and Concentrations

#### 20 ul Final Reaction Volume

Final dNTP Conc	dNTP Volume
0.2 mM	0.04 ul
0.5 mM	0.1 ul
1.0 mM	0.2 ul
1.5 mM	0.3 ul

#### 25 ul Final Reaction Volume

Final dNTP Conc	dNTP Volume
0.2 mM	0.05 ul
0.5 mM	0.125 ul
1.0 mM	0.25 ul
1.5 mM	0.375 ul

#### 50 ul Final Reaction Volume

Final dNTP Conc	dNTP Volume
0.2 mM	0.1 ul
0.5 mM	0.25 ul
1.0 mM	0.5 ul
1.5 mM	0.75 ul

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## 100 ul Final Reaction Volume

Final dNTP Conc	dNTP Volume
0.2 mM	0.2 ul
0.5 mM	0.5 ul
1.0 mM	1.0 ul
1.5 mM	1.5 ul

**Quality Control**

100 mM dNTP Set is tested functionally in a DNA polymerase reaction that requires all four deoxyribonucleotides.