

Ordering Information

Catalog No.	dNTP Mixture	Concentration(each)
BP001-01	1ml	2.5 mM
BP001-02	5 × 1ml	2.5 mM
BP002-01	1ml	10 mM
BP002-02	5 × 1ml	10 mM

Description

This product of dNTP Mixture is composed of dATP, dCTP, dGTP and dTTP.

Application

For use in many molecular biology experiment, including ordinary PCR, long PCR, real-time PCR, high fidelity PCR, RT-PCR, cDNA synthesis, primer extension, DNA sequencing and DNA labeling.

Quality Control

The purity is greater than 98% confirmed by HPLC.

Have tested in PCR with Taq and Pfu DNA Polymerases.

The dNTP is free of incision enzyme, exodeoxyribonuclease, ribonuclease and phosphatase activities.

PCR Protocol

1. Prepare the following reaction mixture:

Component	Volume/reaction	Final Concentration
Template DNA	1 μ l	≤ 1 μ g/reaction
10 x PCR buffer	5 μ l	1 x
10 mM dNTP mix	1 μ l	200 μ M each
Forward primer (10 μ M)	1 μ l	0.2 μ M
Reverse primer (10 μ M)	1 μ l	0.2 μ M
Taq DNA polymerase (5 U/ μ l)	0.5 μ l	2.5 U
ddH ₂ O	up to 50 μ l	

2. PCR cycling program

94°C	2 min	} 25~35 cycles
94°C	30 sec	
50~68°C	30 sec	
72°C	1 min/1 kb	
72°C	5 min	

Precautions and Disclaimer

This product is for in vitro research use only. Not for diagnostic or therapeutic use.