



100mM dNTPs set
cat#BBr006
Size: 4x1 ml
Storage
-20°C for 24 months

Features

- Separate 100 mM aqueous solutions for each nucleotide (dATP, dCTP, dGTP and dTTP),
- supplied in separate tubes.
- Compatible with a wide range of applications
- $\geq 99\%$ pure as determined by HPLC analysis.

Description

The 100 mM dNTP Set contains 1 ml of each 100 mM nucleotide as four separate solutions (dATP, dCTP, dGTP and dTTP). The deoxynucleotides are suitable for use in polymerase chain reaction (PCR), sequencing, fill-in, nick translation, cDNA synthesis, and TdT tailing reactions.

Protocol

To use dNTPs in a PCR reaction, prepare an equimolar 10mM dNTP solution

- Add equal volumes of each dNTP in a single vial to constitute 100mM dNTPs mix.
- Mix well the solution
- Dilute the 100 mM dNTPs mix 1:10 (one part of your solution, nine part of water) with DNase and RNase free double distilled water to constitute the ready to use 10 mM dNTPs mix

Add the recommended volume of the prepared 10mM dNTP mix into your PCR reaction.

The following table calculate the right volume of 10 mM dNTP mix to add to a **20 μ l PCR reaction**:

Final dNTP concentration (mM)	Volume of the 10mM dNTP mix (μ l)
0.2	0.16
0.5	0.4
1.0	0.8
1.5	1.2

Caution

- Check buffers before use for precipitation
- Aliquot reagents to avoid contamination and repeated freeze-thaw cycles
- During operation, always wear a lab coat, disposable gloves, and protective equipment.
- Research Use Only. Not intended for any animal or human therapeutic or diagnostic uses.