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DATA QUALITY SHEET

Deoxynucleotide (dNTP) Solution Set

Sodium or lithium or ammonium salts

FOR RESEARCH USE ONLY

Description

A set of 4 dNTP contains 4 tubes of dNTPs solutions (dATP, dCTP, dGTP, dTTP or dUTP) at a concentration of 100 mM.

All nucleotides (including dUTP 100 mM) are available as single nucleotides.

Each particular dNTP is tested for purity (> 98% HPLC), UV-spectral characteristics, NMR-characteristics, the performance in PCR with Taq DNA Polymerase and Pfu DNA Polymerase, the absence of deoxyendo-/exonucleases and RNase activities in appropriate tests. dNTPs allow for synthesis of DNA PCR-products up to 20 kb

Applications

- all molecular biology applications
- PCR/qPCR
- reverse transcription
- DNA labeling
- DNA sequencing

Delivery form

Sterile water solution of appropriate salt nucleotide. Colorless transparent liquid.

Concentration

0.1 M

Quality control

- Purity according to HPLC analysis is not less than 98%.
- Product is free of DNases, RNases activities.
- The concentration is determined spectrophotometrically.
- PCR performance

Storage

-20°C. Avoid multiple freezing-thawing.

Transportation

The product does not require special conditions of transportation.