



Just fine Molecular Biology

4 dNTPs mix (10mM of each)

dNTPs are the building material for DNA molecule and used in various assays based on PCR. The purity of dNTPs is highly important for assay results' accuracy. The dNTPs synthesis itself doesn't except the presence of contaminants (such as NTPs, modified nucleotides, dNDPs, dNMPs, heavy/transition metals) in resulting solution, which can extremely affect the experiment by PCR inhibition. The use of a highly purified dNTP preparation is particularly recommended for sensitive techniques such as long-range PCR, RT-PCR, multiplex, mutagenesis experiments and Real-Time applications. HPLC is a suitable method of testing dNTP purity. dNTPs offered are HPLC tested and can be employed in highly sensitive assays

The deoxynucleotides, PCR grade are suitable for many applications where high-quality reagents are required. Such procedures include reverse transcription (RT), polymerase chain reaction (PCR), RT-PCR, DNA labeling reactions and sequencing/cycle sequencing analysis.

All deoxynucleoside triphosphates are produced by the highly effective new chemical method developed in-house.

Description 4 you 4 dNTPs mix is a premixed solution (ready-to-use) in water of sodium salts of dATP, dCTP, dGTP and dTTP each at a concentration 10mM. pH is adjusted to 7,5.

Purity assays:

- HPLC analysis (>98%); Not more then 5% of dNDPs were found by HPLC
- NMR analysis (inorganic phosphates) - passed
- Exo-endo deoxyribonucleases contamination test – passed
- UV-Spectral analysis – passed
- Spectrophotometry – passed

Functional assays:

- Production of 8kb PCR fragment from genomic DNA with *Taq* DNA polymerase – passed
- Production of 0,6kb PCR fragment from genomic DNA with *Pfu* DNA polymerase - passed

Usage The solution is ready for use and is optimized for PCR. Use 1 microliter of PCR mix in 50 microliters reaction volume.

Storage dNTPs can be stored at least 12 months at -20°C in a constant-temperature freezer. Avoid multiple freeze-thawing. For long-term usage, aliquoting is recommended.

Cat.-No: Pack size

110001 0,2 ml

110002 1 ml

Version AS06.01

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