Just fine Molecular Biology

dTTP Na_4 * $3H_2O$
Thymidine 5'-triphosphate, tetrasodium salt, Purity: 98,8% (HPLC)

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

Description Solution in water of sodium salts of dTTP 100mM/20mM, pH 7,5, MW 624,2

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
- Spectophotometry – 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
110009	0,2 ml (100 mM)
110010	1,0 ml (100 mM)
110029	0,2 ml (20 mM)
110030	1,0 ml (20 mM)

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Bioron GmbH

Contact: Phone: +49-(0)-621- 5720 915 Fax:+49-(0)-621-5720 916
E-Mail: info@bioron.net www.bioron.net