



Just fine Molecular Biology

dATP

Na₄ * 3H₂O, Deoxyadenosine 5'-triphosphate, tetrasodium salt

Cat.No.: 110023 0,2 ml (20 mM)

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 dATP 20mM, pH 7,5, MW 634,2

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
- 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.

dATP, 20 mM

Catalog #	Pack size
110023	200 µl
110024	1000 µl

dATP, 100 mM

Catalog #	Pack size
110003	200 µl
110004	1000 µl

Catalog #	Pack size
110103SP	1 g

Version EA170707

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