

10mM dNTP Mix

Cat. No. 95062-200
95062-01K

Size: 200 μ L (2 pmol each dATP, dCTP, dGTP, dTTP)
1000 μ L (10 pmol each dATP, dCTP, dGTP, dTTP)

Store at -20°C

Description

The 10 mM dNTP Mix is a solution of high purity deoxyribonucleoside triphosphates that has been functionally qualified for real-time quantitative PCR (qPCR). It is suitable for use in conventional end-point PCR, real-time qPCR, first-strand cDNA synthesis, as well as other applications that require dNTP as substrate.

We have found that dNTP quality and purity can directly affect dynamic range, sensitivity and precision of qPCR assays. Surprisingly, dNTP preparations that fail our qPCR functional testing are often >99% triphosphate purity by HPLC analysis and function perfectly well in conventional end-point PCR assays, including amplification of long (up 20 kb) templates. The use of qPCR certified dNTPs is a simple but important measure to ensure consistent assay performance.

Storage and Stability

Store the 10 mM dNTP mix at -20°C in a constant temperature freezer. Avoid repeated freeze/thaw cycles. When stored under these conditions the dNTP mix is stable for one year.

Components

10 mM dATP, 10 mM dCTP, 10 mM dGTP, and 10 mM dTTP

Quality control

10 mM dNTP mix is functionally tested in real-time PCR for amplification of a single copy gene from human genomic DNA and is free of detectable RNase or DNase. Each deoxyribonucleoside triphosphate is > 99% pure by HPLC analysis.