

PureStrand™ 100mM dNTP Set

Catalog No.	Pack Size and Concentration	Components
AZ-1271	4 x 250 µl, 100mM	25 µmol each dATP, dCTP, dGTP and dTTP
AZ-1274	4 x 4 x 250 µl, 100mM	100 µmol each dATP, dCTP, dGTP and dTTP

Description

The PureStrand™ 100mM dNTP Set is comprised of individual ultra-pure 100mM dNTP Solutions of dATP, dCTP, dGTP and dTTP for use in all standard and sensitive PCR applications. Purity of dNTPs is essential for any PCR, Real-Time PCR and cDNA Synthesis application as inhibitors and contaminants can interfere with DNA polymerases and template. PureStrand™ Ultra-Pure dNTPs are purified using exacting processes to eliminate the presence of PCR-specific inhibitors such as tetraphosphates and pyrophosphates. The presence of contaminating impurities can result in a decrease in amplification sensitivity and product yield.

The performance of each lot of PureStrand 100mM dNTP Set is tested in PCR, long PCR and qPCR for sensitivity and reproducibility.

- >99% Triphosphate Purity by HPLC
- Free of contaminating impurities and PCR inhibitors
- DNase, RNase, Nickase and Protease Free
- Shelf-Life of 24 months at –20°C

Storage

PureStrand™ 100mM dNTP Set is shipped on blue ice and should be stored at –20°C upon receipt. Excessive freeze/thawing should be avoided. When stored as specified, PureStrand™ 100mM dNTP Set is stable for 24 months from date of receipt.

Preparation of dNTP Master Mix

- Prepare a dNTP Master Mix for DNA synthesis as follows: Mix equal volumes of all separate dNTP solutions in a new nuclease-free microcentrifuge tube. The final solution has a concentration of 25mM of each dNTP, which corresponds to a 100x working concentration.
- We suggest the use of 0.5 µl dNTP Master Mix in a 50 µl PCR reaction.

Quality Control

PureStrand™ 100mM dNTP Set is tested extensively for contamination prior to release. PureStrand™ dNTPs are >99% pure by HPLC and are free of DNase, RNase, Protease, phosphatase and nicking activity.

Limitations of Use

This product is intended for research purposes and is not intended for any animal or human therapeutic use.