



Certificate of Analysis

IBI UltraPure dNTP Solution

Lot No.: 072417002

Concentration: 10mM

Storage: Store at -20°C upon arrival.

Purity: ≥ 99% (HPLC)

Product Description: IBI UltraPure dNTP Solution is an equimolar solution of ultrapure dATP, dCTP, dTTP, and dGTP supplied as clear aqueous solution (pH 8.5).

| <u>Catalog #</u> | <u>Size</u> |
|------------------|-------------|
| IB43050 | 0.2ml |
| IB43051 | 1ml |

| Assay Name / Specification | Pass? |
|--|-------------------------------------|
| <p>Quality Control Assays The following Quality Control Tests are performed on each new lot and meet the specifications designated for the product.</p> <ul style="list-style-type: none"> <p>DNase and RNase Activity: IBI Taq DNA Polymerase is tested for nuclease degradation in reactions containing a DNA or RNA substrate. After incubation for 1 hour there is no detectable degradation of the DNA or RNA substrate as determined by agarose gel electrophoresis.</p> <p>Functional Assay: IBI Taq DNA Polymerase is tested for performance in the polymerase chain reaction (PCR). Taq is used to amplify a 1000bp region of the <i>E. coli</i> genome using Universal 16S ribosomal primers. Serial dilutions of the enzyme result in serial dilutions of the expected product.</p> <p>Contamination Assay: IBI Taq DNA Polymerase is used as the template in qPCR reactions using Universal 16S ribosomal primers that have specificity to both <i>E. coli</i> and Human gDNA. No <i>E. coli</i> or Human gDNA are detected before 30 cycles.</p> | <p>PASS</p> <p>PASS</p> <p>PASS</p> |

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: Toby Frericks

Date: 07/24/17

Research Use Only. Not for Use in Diagnostic Procedures.