



# Certificate of Analysis

## IBI UltraPure dNTP Solution

**Lot No.:** 092217007

**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

<b>Assay Name / Specification</b>	<b>Pass?</b>
<p><b>Quality Control Assays</b> 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"> <li> <p><b>DNase and RNase Activity:</b> 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> </li> <li> <p><b>Functional Assay:</b> 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> </li> <li> <p><b>Contamination Assay:</b> 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> </li> </ul>	<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: 09/26/17

**Research Use Only. Not for Use in Diagnostic Procedures.**