



Certificate of Analysis

IBI Taq No Dye 2X Master Mix

Lot No.: 111218001

Concentration: 2X

Storage: Store at -20°C upon arrival. Minimize number of freeze/thaw cycles by storing in working aliquots.

<u>Catalog #</u>	<u>Size</u>
IB43100	10 Reactions
IB43101	100 Reactions
IB43102	500 Reactions
IB43103	1000 Reactions

Product Description: IBI Taq No Dye 2X Master Mix is supplied in a 2X reaction buffer with 400µM dCTP, 400µM dGTP, 400µM dATP, 400µM dTTP, and 3mM MgCl₂, and IBI Taq DNA Polymerase. The Taq DNA Polymerase gene is isolated from *Thermus aquaticus* YT1 and expressed in *E.coli*. The recombinant Taq DNA Polymerase shows identical characteristics to native *Taq* from *Thermus aquaticus*.

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 No Dye 2X Master Mix 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 No Dye 2X Master Mix is tested for performance in the polymerase chain reaction (PCR) using 25 and 10 µl reaction volumes. Reactions containing the master mix, control template DNA and specific primers resulted in the expected product for both <i>E. coli</i> and Human gDNA.</p> <p>Contamination Assay: IBI Taq No Dye 2X Master Mix 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: 11/14/18

Research Use Only. Not for Use in Diagnostic Procedures.