



## Certificate of Analysis

COA No: CA BNN-0003

Version: 03

### dNTP Mix 10mM

For Research Use Only

Storage Conditions: -20°C

Lot number: DM1-617103

Expiry date: April 2019

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | A 800bp human genomic DNA fragment is amplified with a dilution series of enzymes, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).  | Passed |
| DNA contamination   | Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with a reference sample.   | Passed |
| DNase contamination | Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection $2.5 \times 10^{-3}$ U DNase. | Passed |
| RNase contamination | Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase.  | Passed |
| Nicking Activity    | Incubation of dNTP Mix with supercoiled control plasmid. Analysed by agarose gel electrophoresis. Test sample does not show an increase of linearized or relaxed plasmid.   | Passed |

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