

## MangoTaq DNA Polymerase

For Research Use Only

|                     |                         |
|---------------------|-------------------------|
| Kit Lot No:         | BIO-21083_PL331-B067970 |
| Storage Conditions: | -20°C                   |
| Component Lot No:   | BTLM-819402A            |
| Expiry date:        | April 2021              |

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragment of size 3Kb is amplified with a dilution series of Taq DNA Polymerase, using standard conditions and 30 cycles. Fragment of size 800bp is amplified with a dilution series of human genomic DNA, 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 |

Authorised by Christopher Weatherall





## Certificate of Analysis

COA No: CA XBB-0008

Version: 04

# MangoTaq Buffer Coloured

For Research Use Only

|                     |                         |
|---------------------|-------------------------|
| Kit Lot No:         | BIO-21083_PL331-B067970 |
| Storage Conditions: | -20°C                   |
| Component Lot No:   | NHMR-819102A            |
| Expiry date:        | April 2021              |

## Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragment of size 3000bp was amplified with a dilution series of Lambda DNA and a dilution series of MangoTaq™, 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 |

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## Certificate of Analysis

COA No: CA XBB-0007

Version: 04

# MangoTaq Buffer Colourless

For Research Use Only

|                     |                         |
|---------------------|-------------------------|
| Kit Lot No:         | BIO-21083_PL331-B067970 |
| Storage Conditions: | -20°C                   |
| Component Lot No:   | NHM-819202A             |
| Expiry date:        | April 2021              |

## Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragment of size 3000bp was amplified with a dilution series of MangoTaq™, using standard conditions and 30 cycles. Fragment of size 800bp was amplified with a dilution series of Human Genomic DNA, 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 |

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## Certificate of Analysis

COA No: CA\_XBB-0014

Version: 04

### MgCl<sub>2</sub> Solution, 50mM

Suitable for Research and further Manufacturing Use as an IVD component

|                     |                         |
|---------------------|-------------------------|
| Kit Lot No:         | BIO-21083_PL331-B067970 |
| Storage Conditions: | -20°C                   |
| Component Lot No:   | MG-2031.005             |
| Expiry date:        | April 2021              |

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragments of sizes 800bp and 3000bp are amplified with a dilution series of BIOTAQ™ DNA Polymerase, 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 |

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