



## Certificate of Analysis

COA No: CA XBB-0003-2

Version: 04

### RT Buffer

For Research Use Only

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: TRTB-818112A

Expiry date: January 2021

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragment of size 1Kb was reverse transcribed with BioScript™, with a template dilution series, using standard conditions. 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 |

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## Certificate of Analysis

COA No: CA CHM-0192

Version: 04

# Reverse Transcriptase

For Research Use Only

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: TRT-818412A

Expiry date: January 2021

## Quality Control Parameters

| Analysis                      | Specification  | Result |
|-------------------------------|--|--------|
| Functional                    | Fragments of sizes 1.2Kb and 6.5Kb were reverse transcribed, using standard conditions. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). | Passed |
| Endonuclease contamination    | Super coiled DNA plasmid was incubated with the reverse transcriptase for 1 hour at 37°C, the absence of nicking and cutting is shown by agarose gel electrophoresis.            | Passed |
| DNase and RNase contamination | A DNA and RNA fragment were Incubated with the reverse transcriptase for 1 hour at 37°C. < 1% degradation was observed.  | Passed |

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## Certificate of Analysis

COA No: CA\_XBE-0031

Version: 04

### RNase Inhibitor

Suitable for Research and further Manufacturing Use as an IVD component

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: RI-818112A

Expiry date: January 2021

### Quality Control Parameters

| Analysis   | Specification   | Result |
|------------|---|--------|
| Inhibition | Test level of inhibition by incubating total RNA with concentration gradient of RNase A. Bands were observed with agarose gel electrophoresis (ethidium stained). | Passed |

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## Certificate of Analysis

COA No: CA BNN-0003

Version: 05

### dNTP Mix 10mM

Suitable for Research and further Manufacturing Use as an IVD component

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: DM1-818212A

Expiry date: January 2021

### 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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## Certificate of Analysis

COA No: CA\_XBS-0085

Version: 04

### Oligo (dT)<sub>18</sub>

For Research Use Only

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: ODT-718112A

Expiry date: January 2021

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | A 1Kb fragment is reverse transcribed from Poly A RNA with a dilution series of BioScript™, using standard conditions. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). | 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 |

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## Certificate of Analysis

COA No: CA\_XBS-0090

Version: 04

### Random Hexamer Primer

For Research Use Only

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: RHP-718212A

Expiry date: January 2021

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | A 1Kb fragment is reverse transcribed from Poly A RNA with a dilution series of BioScript™, using standard conditions. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). | 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 |

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## Certificate of Analysis

COA No: CA\_XBS-0020

Version: 04

### DEPC Water

Suitable for Research and further Manufacturing Use as an IVD component

Kit Lot No: BIO-65043\_RA384-B066610

Storage Conditions: -20°C

Component Lot No: DWT-718211A

Expiry date: January 2021

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| 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 control 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 I. | 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 |

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