

## Reverse Transcriptase

For research or further manufacturing use only

|                     |               |
|---------------------|---------------|
| Catalog No:         | BIO-65042     |
| Lot No:             | RA383-B105320 |
| Storage Conditions: | -20°C         |
| Component Lot No:   | TRT-122102A   |
| Expiry date:        | March 2024    |

### 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 |

QA / QC Representative:



Alberta Newton

Date: 3<sup>rd</sup> March 2022

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**RT Buffer**

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| Catalog No:         | BIO-65042     |
| Lot No:             | RA383-B105320 |
| Storage Conditions: | -20°C         |
| Component Lot No:   | TRTB-022102A  |
| Expiry date:        | March 2024    |

**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/μL RNase.  | Passed |

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**RNase Inhibitor**

Suitable for Research and further Manufacturing Use

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| Storage Conditions: | -20°C         |
| Component Lot No:   | RI-122102A    |
| Expiry date:        | March 2024    |

**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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**dNTP Mix 10mM**

Suitable for Research and further Manufacturing Use

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| Catalog No:         | BIO-65042     |
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| Storage Conditions: | -20°C         |
| Component Lot No:   | DM1-122102A   |
| Expiry date:        | March 2024    |

**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/μL 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 |

Authorised by QA / QC Representative:



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## Random Hexamer Primer

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| Storage Conditions: | -20°C         |
| Component Lot No:   | RHP-122102A   |
| Expiry date:        | March 2024    |

### 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/μL RNase.  | Passed |

QA / QC Representative:



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

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| Lot No:             | RA383-B105320 |
| Storage Conditions: | -20°C         |
| Component Lot No:   | ODT-122102A   |
| Expiry date:        | March 2024    |

**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/μL RNase.  | Passed |

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**DEPC Water**

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| Catalog No:         | BIO-65042     |
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| Storage Conditions: | -20°C         |
| Component Lot No:   | DWT-122802C   |
| Expiry date:        | March 2024    |

**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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