| meridian BIOSCIENCE™ | Certificate of Analysis | COA No: CA CHM-0192 |
|---|---|---|
| | | Version: 08 |

# Reverse Transcriptase

For research or further manufacturing use only

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | TRT-324303A |
| Expiry date: | April 2026 |

## 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: J. Rahnenführer Date: 13th March 2024


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|---|---|---|
| | | Version: 08 |

# RT Buffer

For research or further manufacturing use only

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | TRTB-324103B |
| Expiry date: | April 2026 |

## 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 *E. coli* 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 x $10^{-3}$ 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 9.7x$10^{-3}$ ng/µL RNase. | Passed |

QA / QC Representative: J. Rahnenführre Date: 13th March 2024


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|---|---|---|
| | | Version: 09 |

# RNase Inhibitor

Suitable for Research and further Manufacturing Use

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | RI-124303A |
| Expiry date: | April 2026 |

## 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 |

QA / QC Representative: J. Rahnenführer Date: 13th March 2024


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|---|---|---|
| | | Version: 09 |

# dNTP Mix 10mM

Suitable for Research and further Manufacturing Use

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | DM1-324203A |
| Expiry date: | April 2026 |

## 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 *E. coli* 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 x $10^{-3}$ 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 9.7x$10^{-3}$ 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 |

QA / QC Representative: J. Rahnenführer Date: 13th March 2024


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|---|---|---|
| | | Version: 07 |

# Random Hexamer Primer

For research or further manufacturing use only

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | RHP-324103A |
| Expiry date: | April 2026 |

## 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 $9.7x10^{-3}$ ng/µL RNase. | Passed |

QA / QC Representative: J. Rahnenführer Date: 13th March 2024


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|---|---|---|
| | | Version: 07 |

# Oligo $(dT)_{18}$

For research or further manufacturing use only

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | ODT-124103A |
| Expiry date: | April 2026 |

## 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 $9.7x10^{-3}$ ng/µL RNase. | Passed |

QA / QC Representative: J. Rahnenführer Date: 13th March 2024


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| | | Version: 08 |

# DEPC Water

For research or further manufacturing use only

| | |
|---|---|
| Catalog No: | BIO-65042 |
| Lot No: | RA383-B126100 |
| Storage Conditions: | -20°C |
| Component Lot No: | DWT-124903B |
| Expiry date: | April 2026 |

## Quality Control Parameters

| Analysis | Specification | Result |
|---|---|---|
| DNA contamination | Quantitative PCR analysis with no template. Presence of *E. coli* 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 x $10^{-3}$ 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 9.7x$10^{-3}$ ng/µL RNase. | Passed |

QA / QC Representative: J. Rahnneführer Date: 13th March 2024


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