



## Certificate of Analysis

COA No: CA\_BSM-0020-3

Version: 01

### JetSeq FAST Hi-ROX Mix

For Research Use Only

Storage Conditions: -20°C

Lot number: JFH-617205

Expiry date: December 2018

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Quantitative PCR analysis amplifying 6 genes from a dilution series of mouse cDNA under standard conditions. Cq and melting profiles must be consistent for the test and reference sample with 0.5+/- Cq variance.  | Passed |
| DNA contamination   | Quantitative PCR analysis with no template. Presence of E. coli and mouse genomic DNA checked. Test sample must amplify in concordance with control sample.   | Passed |
| DNase contamination | Incubation of a 1 Kb 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 exhibit less degradation than the limit of detection 2.5 x 10 <sup>3</sup> U DNase. | Passed |

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|---|----------------------------------|---------------------|
| <br><small>A Merck Life Science Company</small> | <h2>Certificate of Analysis</h2> | COA No: CA_BMM-0028 |
|   |                                  | Version: 01         |

|  |                     |               |
|--|---------------------|---------------|
| <h1>JetSeq Primer Mix</h1><br><br><small>For Research Use Only</small> | Storage Conditions: | -20°C         |
|  | Lot number:         | JPM-717405    |
|  | Expiry date:        | December 2018 |

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | JetSeq Primer mix is used in qPCR under standard JetSeq Library Quantification kit conditions to amplify a reference DNA template. The amplification curve analysis should demonstrate an average Ct value of $9.3 \pm 0.5$ and the melt curve analysis is expected to produce a single peak with a $T_m$ value of $82.3 \pm 0.4$ °C. | Passed |
| DNase contamination | The effect of the incubation of JetSeq Primer Mix (4h, 37 °C) with a 1 Kb dsDNA fragment is compared with a dilution series of DNase I on agarose gel electrophoresis. Test sample must exhibit less degradation than $2.5 \times 10^{-3}$ U DNase.   | Passed |

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|---|----------------------------------|--|
| <br><small>A Medinova Life Sciences Company</small> | <h2>Certificate of Analysis</h2> | COA No: CA_BH-0055, -0056, -0057, -0058, -0059 & -0060 |
|   |                                  | Version: 01  |

|  |   |
|--|---|
| <h1>JetSeq Standards</h1> <p>For Research Use Only</p> | Storage Conditions: <span style="float: right;">-20°C</span>  |
|  | Lot number: <span style="float: right;">           JS01-717203<br/>           JS02-717203<br/>           JS03-717203<br/>           JS04-717203<br/>           JS05-717203<br/>           JS06-717203         </span> |
|  | Expiry date: <span style="float: right;">December 2018</span>   |
|  |   |

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | JetSeq Standards are used in qPCR under JetSeq Library Quantification kit recommended conditions. The average Ct value of the Standard 1 exhibits $9.3 \pm 0.5$ and the measured efficiency of the reaction should be between 90 – 100 %. The melt analysis should produce a single peak. | Passed |
| DNase contamination | The effect of the incubation of JetSeq Standards (4h, 37 °C) with a 1 Kb dsDNA fragment is compared with a dilution series of DNase I on agarose gel electrophoresis. Test sample must exhibit less degradation than $2.5 \times 10^{-3}$ U DNase.  | Passed |

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| <br><small>A MedixBio Sciences Company</small> | <h2>Certificate of Analysis</h2> | COA No: CA_BDB-0024 |
|  |                                  | Version: 01         |

|   |                     |               |
|---|---------------------|---------------|
| <h1>JetSeq Dilution Buffer</h1><br><br><small>For Research Use Only</small> | Storage Conditions: | -20°C         |
|   | Lot number:         | JDB-717105    |
|   | Expiry date:        | December 2018 |

### Quality Control Parameters

| Analysis            | Specification  | Result |
|---------------------|--|--------|
| Functional          | The DNA melting property of the JetSeq Dilution Buffer was controlled by qPCR under standard JetSeq Quantification kit conditions. The resulting melting profile should show only one major melting peak with an expected Tm value of 82.3 ±0.4 °C.        | Passed |
| DNase contamination | The effect of the incubation of JetSeq Dilution Buffer (4h, 37 °C) with a 1 Kb dsDNA fragment is compared with a dilution series of DNase I on agarose gel electrophoresis. Test sample must exhibit less degradation than 2.5 x 10 <sup>-3</sup> U DNase. | Passed |

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