



Certificate of Analysis

COA No: CA_XBH-0001

Version: 04

HyperLadder™ 1Kb

For Research Use Only

Storage Conditions: -20°C

Lot number: H1-618106A

Expiry date: July 2020

Quality Control Parameters

Certified Values:

| Number of Bases | Method of Testing | Specification | Method of Testing | Results |
|-----------------|-------------------|-------------------|---|---------|
| 200 bp | Sequencing | 20 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 400 bp | Sequencing | 40 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 600 bp | Sequencing | 60 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 800 bp | Sequencing | 80 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 1000 bp | Sequencing | 100 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 1500 bp | Sequencing | 15 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 1517 bp | Sequencing | 15 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 2000bp | Sequencing | 20 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 2500 bp | Sequencing | 25 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 3000 bp | Sequencing | 30 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 4000 bp | Sequencing | 40 ng/band ± 10% | UV absorption spectrum Visual comparison test vs history | Passed |

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|--|--------------------------------|---------------------|
|  | Certificate of Analysis | COA No: CA_XBH-0001 |
| | | Version: 04 |

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|----------|------------|-----------------------|---|--------|
| 5000 bp | Sequencing | 50 ng/band \pm 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 6000 bp | Sequencing | 60 ng/band \pm 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 8000 bp | Sequencing | 80 ng/band \pm 10% | UV absorption spectrum Visual comparison test vs history | Passed |
| 10037 bp | Sequencing | 100 ng/band \pm 10% | UV absorption spectrum Visual comparison test vs history | Passed |

Note: The values given relate to individual bands. Following the combination of all bands in one solution, the Ladder may be used for approximating the mass of DNA.

Authorised by Ivan Mijatovic



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|---|--------------------------------|----------------------------|
|  <small>A Merck Life Science Company</small> | Certificate of Analysis | COA No: CA XBB-0005 |
| | | Version: 03 |

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|--|----------------------------------|
| <h2>DNA Loading Buffer Blue</h2> <p>For Research Use Only</p> | Storage Conditions: -20°C |
| | Lot number: HLBB-618106A |
| | Expiry date: July 2020 |

| |
|-----------------------------------|
| Quality Control Parameters |
|-----------------------------------|

| Analysis | Specification | Result |
|---------------------|---|--------|
| Functional | Tested on a 1.5% gel with 4 different sized DNA. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). | 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 2.5×10^{-3} U DNase. | Passed |

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