

## New England Biolabs Certificate of Analysis

**Product Name:** Phusion® Hot Start Flex 2X Master Mix  
**Catalog Number:** M0536L  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10162791  
**Expiration Date:** 12/2023  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M0536S/L v2.0  
**Composition (1X):** 1 X Phusion® Hot Start Flex Reaction Buffer, 0.2 mM dATP, 0.2 mM dCTP, 0.2 mM dGTP, 0.2 mM dTTP, 20 units/ml Phusion® Hot Start Flex DNA Polymerase

| Phusion® Hot Start Flex 2X Master Mix Component List |                                       |            |                      |
|--|---------------------------------------|------------|----------------------|
| NEB Part Number                                      | Component Description                 | Lot Number | Individual QC Result |
| M0536SVIAL   | Phusion® Hot Start Flex 2X Master Mix | 10154545   | Pass                 |
| B0515AVIAL   | DMSO                                  | 10150729   | Pass                 |

| Assay Name/Specification   | Lot # 10162791 |
|--|----------------|
| <p><b>PCR Amplification (Hot Start, Human Genomic DNA, Master Mix)</b><br/>           A 25 µl reaction in 1X Phusion® Hot Start Flex Master Mix and 0.5 µM primers containing 50 ng Human Genomic DNA for 25 cycles of PCR amplification results in the expected 665 bp product and a decrease in non-specific genomic bands after pre-incubation at room temperature for 1 hour, when compared to a non-hot start control reaction.</p> | Pass           |
| <p><b>PCR Amplification (7.5 kb Human Genomic DNA, Master Mix)</b><br/>           A 50 µl reaction in 1X Phusion® Hot Start Flex Master Mix and 1.0 µM primers containing 50 ng Human Genomic DNA for 30 cycles of PCR amplification results in the expected 7.5 kb product.</p>   | Pass           |
| <p><b>PCR Amplification (20 kb Lambda DNA, Master Mix)</b><br/>           A 50 µl reaction in 1X Phusion® Hot Start Flex Master Mix and 1.0 µM primers containing 10 ng Lambda DNA for 22 cycles of PCR amplification results in the expected 20 kb product.</p>   | Pass           |

This product has been tested and shown to be in compliance with all specifications.

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Trinh Nguyen  
Production Scientist  
12 Jul 2022



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Michael Tonello  
Packaging Quality Control Inspector  
29 Sep 2022