

## 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:** 10128114  
**Expiration Date:** 04/2023  
**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	10121262	Pass
B0515AVIAL	DMSO	10111136	Pass

Assay Name/Specification	Lot # 10128114
<b>PCR Amplification (Hot Start, Human Genomic DNA, Master Mix)</b> 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.	Pass
<b>PCR Amplification (7.5 kb Human Genomic DNA, Master Mix)</b> 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.	Pass
<b>PCR Amplification (20 kb Lambda DNA, Master Mix)</b> 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.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Christie Vazquez*

Christie Vazquez  
Production Scientist  
08 Nov 2021

*Josh Hersey*

Josh Hersey  
Packaging Quality Control Inspector  
08 Nov 2021