

## New England Biolabs Certificate of Analysis

**Product Name:** Phusion® Hot Start Flex 2X Master Mix  
**Catalog Number:** M0536S  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10061426  
**Expiration Date:** 12/2020  
**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	10045707	Pass
B0515AVIAL	DMSO	10041254	Pass

Assay Name/Specification	Lot # 10061426
<p><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.</p>	Pass
<p><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.</p>	Pass
<p><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.</p>	Pass

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

*Christie Vazquez*

Christie Vazquez  
Production Scientist  
14 Jun 2019

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
30 Dec 2019