

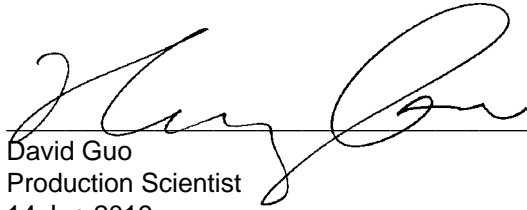
## New England Biolabs Certificate of Analysis

**Product Name:** Phusion® Hot Start Flex 2X Master Mix  
**Catalog Number:** M0536S  
**Concentration:** 2 X Concentrate  
**Lot Number:** 10048081  
**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 # 10048081
<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
<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 (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

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



David Guo  
Production Scientist  
14 Jun 2019



Michael Tonello  
Packaging Quality Control Inspector  
18 Jun 2019