

## New England Biolabs Certificate of Analysis

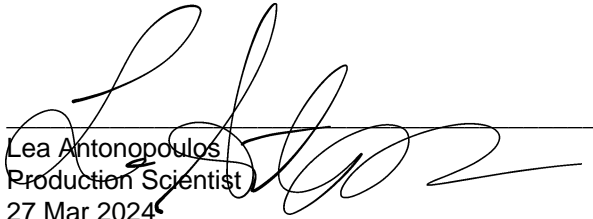
**Product Name:** *Phusion® Hot Start Flex 2X Master Mix*  
**Catalog Number:** *M0536S*  
**Concentration:** *2 X Concentrate*  
**Packaging Lot Number:** *10244385*  
**Expiration Date:** *07/2025*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-M0536S/L v2.0*  
**Composition (1X):** *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	10226632	Pass
B0515AVIAL	DMSO	10228581	Pass

Assay Name/Specification	Lot # 10244385
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>

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

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27 Mar 2024



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