NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Phusion® Hot Start Flex 2X Master Mix*
Catalog Number:	*M0536L*
Concentration:	*2 X Concentrate*
Lot Number:	*10045706*
Expiration Date:	*07/2020*
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	10032994	**Pass**
B0515AVIAL	DMSO	10041254	**Pass**

Assay Name/Specification	**Lot # 10045706**
PCR Amplification (20 kb Lambda DNA, Master Mix) 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**
PCR Amplification (Hot Start, Human Genomic DNA, Master Mix) 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**
PCR Amplification (7.5 kb Human Genomic DNA, Master Mix) 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**

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

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