

## New England Biolabs Certificate of Analysis

**Product Name:** Phusion® High-Fidelity PCR Master Mix with HF Buffer  
**Catalog Number:** M0531S  
**Concentration:** 2 X Concentrate  
**Lot Number:** 10043495  
**Expiration Date:** 08/2020  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M0531S/L v2.0  
**Composition (1X):** 1 X Phusion® HF Buffer, 0.2 mM dATP, 0.2 mM dCTP, 0.2 mM dGTP, 0.2 mM dTTP, 20 units/ml Phusion® High-Fidelity DNA Polymerase

Phusion® High-Fidelity PCR Master Mix with HF Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0531SVIAL	Phusion® High-Fidelity PCR Master Mix with HF Buffer	10032992	Pass
B0515AVIAL	DMSO	10019997	Pass

Assay Name/Specification	Lot # 10043495
<b>PCR Amplification (7.5 kb Human Genomic DNA, Master Mix)</b> A 50 µl reaction in 1X Phusion® High-Fidelity PCR Master Mix with HF Buffer 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® High-Fidelity PCR Master Mix with HF Buffer 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.

*Christie Vazquez*

Christie Vazquez  
Production Scientist  
12 Feb 2019

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
07 May 2019