

New England Biolabs Product Specification

Product Name: Phusion[®] Hot Start Flex 2X Master Mix
Catalog #: M0536S/L
Concentration: 2X Concentrate
Shelf Life: 18 months
Storage Temp: -20°C
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
Specification Version: PS-M0536S/L v2.0
Effective Date: 22 Nov 2016

Assay Name/Specification (minimum release criteria)

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.

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.

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.

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.



Date 22 Nov 2016

Derek Robinson
Director of Quality Control

