New England Biolabs
Product Specification

**Product Name:** Phusion® High-Fidelity PCR Master Mix with GC Buffer

**Catalog #:** M0532S/L

**Concentration:** 2X Concentrate

**Shelf Life:** 18 months

**Storage Temp:** -20°C

**Composition (1X):**
- 1 X Phusion® GC 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

**Specification Version:** PS-M0532S/L v2.0

**Effective Date:** 22 Nov 2016

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**Assay Name/Specification (minimum release criteria)**

**PCR Amplification (20 kb Lambda DNA, Master Mix)** - A 50 µl reaction in 1X Phusion® High-Fidelity PCR Master Mix with GC Buffer 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® High-Fidelity PCR Master Mix with GC 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.

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

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Derek Robinson
Director of Quality Control

Date 22 Nov 2016