

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>Phusion<sup>®</sup> High-Fidelity PCR Master Mix with GC Buffer</i>
<i>Catalog #:</i>	<i>M0532S/L</i>
<i>Concentration:</i>	<i>2X Concentrate</i>
<i>Shelf Life:</i>	<i>18 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Composition (1X):</i>	<i>1 X Phusion<sup>®</sup> GC Buffer, 0.2 mM dATP, 0.2 mM dCTP, 0.2 mM dGTP, 0.2 mM dTTP, 20 units/ml Phusion<sup>®</sup> High-Fidelity DNA Polymerase</i>
<i>Specification Version:</i>	<i>PS-M0532S/L v2.0</i>
<i>Effective Date:</i>	<i>22 Nov 2016</i>

Assay Name/Specification (minimum release criteria)
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<b>PCR Amplification (20 kb Lambda DNA, Master Mix)</b> - A 50 µl reaction in 1X Phusion <sup>®</sup> 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.
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<b>PCR Amplification (7.5 kb Human Genomic DNA, Master Mix)</b> - A 50 µl reaction in 1X Phusion <sup>®</sup> 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.
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\* 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

