Product Name: Phusion® High-Fidelity PCR Master Mix with GC Buffer
Catalog Number: M0532S
Concentration: 2 X Concentrate
Packaging Lot Number: 10055945
Expiration Date: 03/2021
Storage Temperature: -20°C
Specification Version: PS-M0532S/L v2.0
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

**Phusion® High-Fidelity PCR Master Mix with GC Buffer Component List**

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>M0532SVIAL</td>
<td>Phusion® High-Fidelity PCR Master Mix with GC Buffer</td>
<td>10052147</td>
<td>Pass</td>
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<tr>
<td>B0515AVIAL</td>
<td>DMSO</td>
<td>10041254</td>
<td>Pass</td>
</tr>
</tbody>
</table>

**Assay Name/Specification**

**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.

This product has been tested and shown to be in compliance with all specifications.
Christie Vazquez  
Production Scientist  
17 Sep 2019

Josh Hersey  
Packaging Quality Control Inspector  
06 Nov 2019