Product Name: Phusion® GC Buffer Pack
Catalog Number: B0519S
Concentration: 5 X Concentrate
Packaging Lot Number: 10072488
Expiration Date: 06/2022
Storage Temperature: -20°C
Specification Version: PS-B0519S v1.0
Composition (1X): Proprietary

<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>B0519SVIAL</td>
<td>Phusion® GC Buffer Pack</td>
<td>10046899</td>
<td>Pass</td>
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<tr>
<td>B0515AVIAL</td>
<td>DMSO</td>
<td>10062895</td>
<td>Pass</td>
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<td>B0510AVIAL</td>
<td>MgCl2 Solution (50 mM)</td>
<td>10048126</td>
<td>Pass</td>
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Assay Name/Specification | Lot # 10072488
--- | ---
PCR Amplification (20 kb Lambda DNA, Buffer) | Pass
A 50 µl reaction in Phusion® GC Reaction Buffer in the presence of 200 µM dNTPs and 1 µM primers containing 10 ng Lambda DNA with 1 unit of Phusion® High-Fidelity DNA Polymerase for 22 cycles of PCR amplification results in the expected 20 kb product.

PCR Amplification (7.5 kb Human Genomic DNA, Buffer) | Pass
A 50 µl reaction in Phusion® GC Reaction Buffer in the presence of 200 µM dNTPs and 1 µM primers containing 50 ng Human Genomic DNA with 1 unit of Phusion® High-Fidelity DNA Polymerase 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
08 Jul 2019

Michael Tonello
Packaging Quality Control Inspector
31 Mar 2020