Product Name: Phusion® GC Buffer Pack
Catalog Number: B0519S
Concentration: 5 X Concentrate
Packaging Lot Number: 10132971
Expiration Date: 01/2024
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>
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<td>B0519SVIAL</td>
<td>Phusion® GC Buffer Pack</td>
<td>10131205</td>
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<td>B0515AVIAL</td>
<td>DMSO</td>
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<td>B0510AVIAL</td>
<td>MgCl2 Solution (50 mM)</td>
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Assay Name/Specification  
PCR Amplification (7.5 kb Human Genomic DNA, Buffer)  
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.  
Pass

PCR Amplification (20 kb Lambda DNA, Buffer)  
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.  
Pass

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.
Christie Vazquez  
Production Scientist  
15 Feb 2022

Josh Hersey  
Packaging Quality Control Inspector  
15 Feb 2022