

## New England Biolabs Certificate of Analysis

Product Name: *Phusion® GC Buffer Pack*  
 Catalog Number: *B0519S*  
 Concentration: *5 X Concentrate*  
 Lot Number: *10049378*  
 Expiration Date: *04/2022*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-B0519S v1.0*  
 Composition (1X): *Proprietary*

Phusion® GC Buffer Pack Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0519SVIAL	Phusion® GC Buffer Pack	10046899	Pass
B0515AVIAL	DMSO	10041254	Pass
B0510AVIAL	MgCl <sub>2</sub> Solution (50 mM)	10046905	Pass

Assay Name/Specification	Lot # 10049378
<p><b>PCR Amplification (20 kb Lambda DNA, Buffer)</b>            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.</p>	Pass
<p><b>PCR Amplification (7.5 kb Human Genomic DNA, Buffer)</b>            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.</p>	Pass

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

*Christie Vazquez*

Christie Vazquez  
Production Scientist  
18 Apr 2019

*Michael Tonello*

Michael Tonello  
Packaging Quality Control Inspector  
29 Jul 2019