

## New England Biolabs Certificate of Analysis

**Product Name:** Phusion<sup>®</sup> GC Buffer Pack  
**Catalog Number:** B0519S  
**Concentration:** 5 X Concentrate  
**Lot Number:** 10023233  
**Expiration Date:** 04/2021  
**Storage Temperature:** -20°C  
**Specification Version:** PS-B0519S v1.0  
**Composition (1X):** Proprietary

Phusion <sup>®</sup> GC Buffer Pack Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0519SVIAL	Phusion <sup>®</sup> GC Buffer Pack	0051804	Pass
B0515AVIAL	DMSO	0061804	Pass
B0510AVIAL	MgCl <sub>2</sub> Solution (50 mM)	10009811	Pass

Assay Name/Specification	Lot # 10023233
<b>PCR Amplification (20 kb Lambda DNA, Buffer)</b> A 50 µl reaction in Phusion <sup>®</sup> GC Reaction Buffer in the presence of 200 µM dNTPs and 1 µM primers containing 10 ng Lambda DNA with 1 unit of Phusion <sup>®</sup> High-Fidelity DNA Polymerase for 22 cycles of PCR amplification results in the expected 20 kb product.	Pass
<b>PCR Amplification (7.5 kb Human Genomic DNA, Buffer)</b> A 50 µl reaction in Phusion <sup>®</sup> 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 <sup>®</sup> High-Fidelity DNA Polymerase for 30 cycles of PCR amplification results in the expected 7.5 kb product.	Pass

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



Tony Spear-Alfonso  
Production Scientist  
26 Jun 2018



Michael Tonello  
Packaging Quality Control Inspector  
24 Sep 2018