

## New England Biolabs Certificate of Analysis

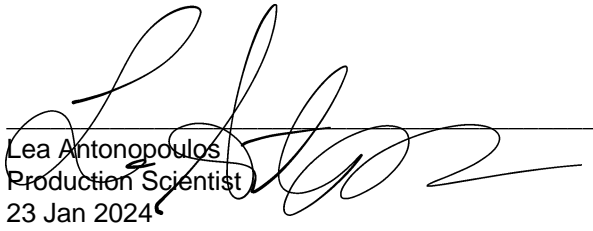
**Product Name:** *Phusion® GC Buffer Pack*  
**Catalog Number:** *B0519S*  
**Concentration:** *5 X Concentrate*  
**Packaging Lot Number:** *10242781*  
**Expiration Date:** *05/2026*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-B0519S v1.0*  
**Composition (1X):** *Proprietary*

Phusion® GC Buffer Pack Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0519SVIAL	Phusion® GC Buffer Pack	10225673	Pass
B0515AVIAL	DMSO	10228581	Pass
B0510AVIAL	MgCl <sub>2</sub> Solution (50 mM)	10233969	Pass

Assay Name/Specification	Lot # 10242781
<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.	<b>Pass</b>
<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.	<b>Pass</b>

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](http://www.neb.com/trademarks) for additional information.



Lea Antonopoulos  
Production Scientist  
23 Jan 2024



---

Michael Tonello  
Packaging Quality Control Inspector  
22 May 2024