

## New England Biolabs Product Specification

*Product Name:* Phusion<sup>®</sup> GC Buffer Pack  
*Catalog #:* B0519S  
*Concentration:* 5X Concentrate  
*Shelf Life:* 36 months  
*Storage Temp:* -20°C  
*Composition (1X):* Proprietary  
*Specification Version:* PS-B0519S v1.0  
*Effective Date:* 08 Aug 2016

### Assay Name/Specification (minimum release criteria)

**PCR Amplification (20 kb Lambda DNA, Buffer)** - 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.

**PCR Amplification (7.5 kb Human Genomic DNA, Buffer)** - 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.



Date 08 Aug 2016

Derek Robinson  
Director of Quality Control

