

## New England Biolabs Certificate of Analysis

**Product Name:** PspGI  
**Catalog Number:** R0611S  
**Concentration:** 10,000 U/ml  
**Unit Definition:** One unit is defined as the amount of enzyme required to digest 1 µg of T7 DNA in 1 hour at 75°C in a total reaction volume of 50 µl.  
**Packaging Lot Number:** 10059961  
**Expiration Date:** 11/2021  
**Storage Temperature:** -20°C  
**Storage Conditions:** 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA  
**Specification Version:** PS-R0611S/L v1.0

PspGI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0611SVIAL	PspGI	10059962	Pass
B7204SVIAL	CutSmart® Buffer	10053983	Pass

Assay Name/Specification	Lot # 10059961
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 50 units of PspGI incubated for 4 hours at 75°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> After a 10-fold over-digestion of T7 DNA with PspGI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with PspGI.	Pass

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



Doreen Duquette  
Production Scientist  
01 Oct 2019



Jay Minichiello  
Packaging Quality Control Inspector  
25 Nov 2019