

## 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:** 10073644  
**Expiration Date:** 05/2022  
**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	10073643	Pass
B7204SVIAL	CutSmart® Buffer	10078756	Pass

Assay Name/Specification	Lot # 10073644
<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.

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11 Sep 2020



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