

New England Biolabs Certificate of Analysis

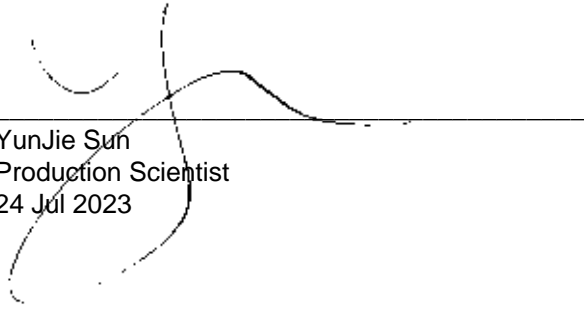
Product Name: PspGI
Catalog Number: R0611S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of T7 DNA in 1 hour at 75°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10199042
Expiration Date: 07/2025
Storage Temperature: -20°C
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	10199043	Pass
B6004SVIAL	rCutSmart™ Buffer	10196035	Pass

Assay Name/Specification	Lot # 10199042
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ 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
Ligation and Recutting (Terminal Integrity) 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.


YunJie Sun
Production Scientist
24 Jul 2023



Michael Tonello
Packaging Quality Control Inspector
26 Jul 2023