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New England Biolabs Certificate of Analysis

Product Name: Hpy188I
Catalog Number: R0617L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pBR322 in rCutSmart Buffer in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10207339
Expiration Date: 09/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

200 μg/ml rAlbumin (pH 7.4 @ 25C)

Specification Version: PS-R0617S/L v2.0

Hpy188I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0617LVIAL	Hpy188I	10207326	Pass	
B6004SVIAL	rCutSmart™ Buffer	10202497	Pass	

Assay Name/Specification	Lot # 10207339
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 30 units of Hpy188l incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of pBR322 DNA with Hpy188I, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with Hpy188I.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of 10 units of Hpy188l incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	Pass



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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 Suń

Production Scientist

10 Şép 2023

Josh Hersey

Packaging Quality Control Inspector

22 Sep 2023



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