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New England Biolabs Certificate of Analysis

Product Name: Hpy188I
Catalog Number: R0617S
Concentration: 10,000 U/ml

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

of pBR322 in 1 hour at 37°C in a total reaction volume of 50 μl.

Lot Number: 10040311
Expiration Date: 03/2021
Storage Temperature: -20°C

Storage Conditions: 100 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0617S/L v1.0

Hpy188I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0617SVIAL	Hpy188I	10040312	Pass	
B7204SVIAL	CutSmart® Buffer	10031569	Pass	

Assay Name/Specification	Lot # 10040311
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [3H] E. coli DNA and a minimum of 30 units of Hpy188I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
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)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of	
10 units of Hpy188I 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.	

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



R0617S / Lot: 10040311

Doreen Duquette **Production Scientist** 20 Mar 2019

Josh Hersey Packaging Quality Control Inspector 16 Apr 2019