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

Lot Number: 10040313
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
R0617LVIAL	Hpy188I	10040314	Pass
B7204SVIAL	CutSmart® Buffer	10042966	Pass

Assay Name/Specification	Lot # 10040313
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.	
Ligation and Recutting (Terminal Integrity)	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ 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.	

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



R0617L / Lot: 10040313 Page 1 of 2



Anthony Francis
Production Scientist
29 Mar 2019

Michael Tonello

Packaging Quality Control Inspector

16 May 2019