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## New England Biolabs Certificate of Analysis

Product Name: Hpy166II

Catalog Number: R0616S

Concentration: 10,000 U/ml

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

of pBR322 in 1 hour at 37°C in total reaction volume of 50 ·l.

Packaging Lot Number: 10145322
Expiration Date: 03/2024
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0616S/L v1.0

Hpy166II Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0616SVIAL	Hpy166II	10145321	Pass	
B6004SVIAL	rCutSmart™ Buffer	10138403	Pass	

Assay Name/Specification	Lot # 10145322
Protein Purity Assay (SDS-PAGE) Hpy166II is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of 50 units of Hpy166II incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of pBR322 DNA with Hpy166II, >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 Hpy166II.	
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 Hpy166II 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.



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30 Mar 2022

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Packaging Quality Control Inspector

30 Mar 2022