

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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 $1 \cdot g$ of pBR322 in 1 hour at 37°C in total reaction volume of 50 ·I.
Packaging Lot Number:	10241810
Expiration Date:	01/2026
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0616SVIAL	Hpy166II	10226030	Pass	
B6004SVIAL	rCutSmart™ Buffer	10238051	Pass	

Assay Name/Specification	Lot # 10241810
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 30 units of Hpy166II incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) 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.	Pass
Non-Specific DNase Activity (16 Hour) 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.	Pass
Protein Purity Assay (SDS-PAGE) Hpy166II is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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





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