

be INSPIRED drive DISCOVERY stay GENUINE

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: | Нру1881 |
|------------------------|--|
| Catalog Number: | R0617S |
| Concentration: | 10,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to digest 1 μ g of pBR322 in 1 hour at 37°C in a total reaction volume of 50 μ l. |
| Packaging Lot Number: | 10154574 |
| Expiration Date: | 06/2024 |
| 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 | 10154573 | Pass | |
| B6004SVIAL | rCutSmart™ Buffer | 10151374 | Pass | |

| Assay Name/Specification | Lot # 10154574 |
|---|----------------|
| 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 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. | Pass |
| 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 Hpy188I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |

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





be INSPIRED drive DISCOVERY stay GENUINE

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

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.

Penghua Zhang Production Scientist 30 Jun 2022

Michae 110

Michael Tonello Packaging Quality Control Inspector 30 Jun 2022

