

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: | DrallI-HF® |
|------------------------|--|
| Catalog Number: | R3510L |
| Concentration: | 20,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l. |
| Lot Number: | 10030802 |
| Expiration Date: | 01/2021 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 20 mM Tris-HCl, 300 mM NaCl, 1 mM Dithiothreitol, 0.1 mM EDTA, 200 μg/ml BSA, 50% Glycerol, pH 7.4 @ 25°C |
| Specification Version: | PS-R3510S/L v1.0 |

| DrallI-HF® Component List | | | | |
|---------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R3510LVIAL | DrallI-HF® | 10030801 | Pass | |
| B7204SVIAL | CutSmart® Buffer | 10031564 | Pass | |
| B7024SVIAL | Gel Loading Dye, Purple (6X) | 10021135 | Pass | |

| Assay Name/Specification | Lot # 10030802 |
|---|----------------|
| 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 200 units of DraIII-HF [™] 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 Lambda DNA with DraIII-HF™, ~75% 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 DraIII-HF™. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of Lambda DNA and a minimum of 20 Units of DraIII-HF [™] 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) DraIII-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection. | Pass |





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

you

Tony Spear-Alfonso Production Scientist 04 Dec 2018

Mich 11.

Michael Tonello Packaging Quality Control Inspector 03 Jan 2019

