

New England Biolabs Certificate of Analysis

Product Name: DralIII-HF®
Catalog Number: R3510L
Concentration: 20,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10084618
Expiration Date: 09/2022
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

DralIII-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3510LVIAL	DralIII-HF®	10084617	Pass
B7204SVIAL	CutSmart® Buffer	10085423	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084971	Pass

Assay Name/Specification	Lot # 10084618
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with DralIII-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 DralIII-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 DralIII-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) DralIII-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	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 200 units of DralIII-HF™ 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.

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.



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Production Scientist
29 Oct 2020



Josh Hersey
Packaging Quality Control Inspector
29 Oct 2020