

New England Biolabs Certificate of Analysis

Product Name: DralIII-HF[®]
Catalog Number: R3510S
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: 10099225
Expiration Date: 02/2023
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
R3510SVIAL	DralIII-HF [®]	10099226	Pass
B7204SVIAL	CutSmart [®] Buffer	10097266	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10091035	Pass

Assay Name/Specification	Lot # 10099225
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
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

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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12 Mar 2021



Michael Tonello
Packaging Quality Control Inspector
12 Mar 2021