

*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:	R3510S
Concentration:	20,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 $\mu$ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Packaging Lot Number:	10126512
Expiration Date:	09/2023
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

DrallI-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3510SVIAL	DrallI-HF®	10118736	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10121393	Pass	
B6004SVIAL	rCutSmart™ Buffer	10121394	Pass	

Assay Name/Specification	Lot # 10126512
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
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with DraIII-HF <sup>™</sup> , ~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 <sup>™</sup> .	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 200 units of DralII-HF <sup>™</sup> incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	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.

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Penghua Zhang

Pengha Zhang Production Scientist 19 Nov 2021

Michael Tonello Packaging Quality Control Inspector 19 Nov 2021

