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## 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 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10149788
Expiration Date: 05/2024
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R3510SVIAL	DrallI-HF®	10149787	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10144740	Pass	
B6004SVIAL	rCutSmart™ Buffer	10146822	Pass	

Assay Name/Specification	Lot # 10149788
Protein Purity Assay (SDS-PAGE)  DraIII-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 [³H] E. coli DNA and a minimum of 200 units of DralII-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> After a 10-fold over-digestion of Lambda DNA with DralII-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 DralII-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 DrallI-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



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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.

Penghaa Zhang Production Scientist

13 May 2022

Erin Varney

Packaging Quality Control Inspector

13 May 2022



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