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New England Biolabs Certificate of Analysis

Product Name: Ddel
Catalog Number: R0175S
Concentration: 10,000 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: 10093179
Expiration Date: 10/2022
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0175S/L v1.0

Ddel Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0175SVIAL	Ddel	10087506	Pass
B7204SVIAL	CutSmart® Buffer	10091032	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10089401	Pass

Assay Name/Specification	Lot # 10093179
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 30 units of Ddel 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 Ddel, >95% 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 Ddel.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 10 Units of Ddel incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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

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Penghaa Zhang Production Scientist 16 Dec 2020 Michael Tonello

Packaging Quality Control Inspector

16 Dec 2020