

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: Ddel R0175L Catalog Number: 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: 10070496 Expiration Date: 03/2022 -20°C Storage Temperature:

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

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	
R0175LVIAL	Ddel	10070495	Pass	
B7204SVIAL	CutSmart® Buffer	10074633	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10064412	Pass	

Assay Name/Specification	Lot # 10070496
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.



R0175L / Lot: 10070496

Page 1 of 2



drive DISCOVERY 240 County Road stay GENUINE Ipswich, MA 01938-2723

Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

Penghua Zhang **Production Scientist** 24 Jun 2020

Josh Hersey Packaging Quality Control Inspector

24 Jun 2020

R0175L / Lot: 10070496

Page 2 of 2