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New England Biolabs Certificate of Analysis

Product Name: Dral
Catalog Number: R0129L
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: 10091689
Expiration Date: 10/2022
Storage Temperature: -20°C

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

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0129S/L v1.0

Dral Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0129LVIAL	Dral	10085442	Pass	
B7204SVIAL	CutSmart® Buffer	10089402	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084973	Pass	

Assay Name/Specification	Lot # 10091689
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 Dral incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with Dral, >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 Dral.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of Dral 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) Dral is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass



R0129L / Lot: 10091689

Page 1 of 2



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.

Penghua Zhang

Production Scientist

24 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

24 Nov 2020



R0129L / Lot: 10091689

Page 2 of 2