

*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:	Dral
Catalog Number:	R0129S
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:	10055331
Expiration Date:	06/2021
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	
R0129SVIAL	Dral	10048091	Pass	
B7204SVIAL	CutSmart® Buffer	10046088	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10053977	Pass	

Assay Name/Specification	Lot # 10055331
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 Dral incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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
<b>Protein Purity Assay (SDS-PAGE)</b> Dral 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.

Anthony Francis Production Scientist 21 Jun 2019

Mir

Michael Tonello Packaging Quality Control Inspector 17 Oct 2019

