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New England Biolabs Certificate of Analysis

Product Name: Drdl
Catalog Number: R0530S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pUC19 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10092117
Expiration Date: 12/2022
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-R0530S/L v2.0

Drdl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0530SVIAL	Drdl	10092118	Pass	
B7204SVIAL	CutSmart® Buffer	10091030	Pass	

Assay Name/Specification	Lot # 10092117
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 50 units of Drdl 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 pUC19 DNA with DrdI, ~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 DrdI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pUC19 DNA and a minimum of 25 Units of Drdl 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.

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.



R0530S / Lot: 10092117

Penghua Zhang **Production Scientist**

13 Dec 2020

Josh Hersey

Packaging Ou 13 Dec 2020 ality Control Inspector

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