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## New England Biolabs Certificate of Analysis

Product Name: Drdl
Catalog Number: R0530S
Concentration: 10,000 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: 10173383
Expiration Date: 12/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200

μg/ml BSA (pH 7.4 @ 25°C)

Specification Version: PS-R0530S/L v3.0

Drdl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0530SVIAL	Drdl	10173382	Pass	
B6004SVIAL	rCutSmart™ Buffer	10173161	Pass	

Assay Name/Specification	Lot # 10173383
<b>Ligation and Recutting (Terminal Integrity)</b> 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 30 units of DrdI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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

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

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NEW ENGLAND

20 Dec 2022

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21 Dec 2022