

New England Biolabs Certificate of Analysis

Product Name: *DraI*
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: *10112487*
Expiration Date: *06/2023*
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*

DraI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0129LVIAL	DraI	10112485	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10105819	Pass
B6004SVIAL	rCutSmart™ Buffer	10111602	Pass

Assay Name/Specification	Lot # 10112487
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with DraI, >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 DraI.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 200 units of DraI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) DraI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	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 DraI 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.



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19 Jul 2021



Michael Tonello
Packaging Quality Control Inspector
19 Jul 2021