

New England Biolabs Certificate of Analysis

Product Name: AluI
Catalog Number: R0137L
Concentration: 10,000 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: 10159532
Expiration Date: 08/2024
Storage Temperature: -20°C
Storage Conditions: 100 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-R0137S/L v1.0

AluI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0137LVIAL	AluI	10159531	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10153339	Pass
B6004SVIAL	rCutSmart™ Buffer	10156433	Pass

Assay Name/Specification	Lot # 10159532
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 30 units of AluI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 50 Units of AluI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with AluI, ~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 AluI.	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.





Pengda Zhang
Production Scientist
09 Sep 2022



Michael Tonello
Packaging Quality Control Inspector
09 Sep 2022