![New England BioLabs Inc. logo] *be* INSPIRED *drive* DISCOVERY *stay* GENUINE

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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:	*10093169*
Expiration Date:	*12/2022*
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	10093167	**Pass**
B7204SVIAL	CutSmart® Buffer	10091033	**Pass**
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084972	**Pass**

Assay Name/Specification	Lot # 10093169
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 30 units of AluI incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**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 16ºC. Of these ligated fragments, >95% can be recut with AluI.	**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 37ºC 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.

![nqa ISO 9001 Registered Quality Management] ![nqa ISO 13485 Registered Medical Devices] ![nqa ISO 14001 Registered Environmental Management]

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Penghua Zhang
Production Scientist
21 Dec 2020

Josh Hersey
Packaging Quality Control Inspector
21 Dec 2020

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