

New England Biolabs Certificate of Analysis

Product Name: Alul
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.
Lot Number: 10051116
Expiration Date: 08/2021
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

Alul Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0137LVIAL	Alul	10051117	Pass
B7204SVIAL	CutSmart® Buffer	10046087	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10043910	Pass

Assay Name/Specification	Lot # 10051116
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 Alul 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 Lambda DNA with Alul, ~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 Alul.	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 Alul 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.

Stephanie Cornelio

Stephanie Cornelio
Production Scientist
06 Aug 2019

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
14 Aug 2019