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New England Biolabs Certificate of Analysis

Product Name: Agel
Catalog Number: R0552L
Concentration: 5,000 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 of 50 μl.

Packaging Lot Number: 10111018
Expiration Date: 06/2023
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0552S/L v1.0

Agel Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0552LVIAL	Agel	10111017	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10108731	Pass	
B6001SVIAL	NEBuffer™ r1.1	10102943	Pass	

Assay Name/Specification	Lot # 10111018
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Agel, >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 Agel.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in NEBuffer 1.1 containing 1 µg of Lambda DNA and a minimum of 5 Units of Agel incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of Agel incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass



R0552L / Lot: 10111018

Page 1 of 2

Assay Name/Specification	Lot # 10111018
Blue-White Screening (Terminal Integrity)	Pass
A sample of LITMUS28i vector linearized with a 10-fold excess of Agel, religated	
and transformed into an E. coli strain expressing the LacZ beta fragment gene	
results in <1% white colonies	

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.

Penghaa Zhang Production Scientist

19 Aug 2021

Josh Hersey

Packaging Quality Control Inspector

19 Aug 2021



R0552L / Lot: 10111018

Page 2 of 2