

New England Biolabs Certificate of Analysis


Product Name: Agel-HF®
Catalog Number: R3552L
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 of 50 µl.
Packaging Lot Number: 10059157
Expiration Date: 11/2021
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-R3552S/L v1.0

Agel-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3552LVIAL	Agel-HF®	10058798	Pass
B7204SVIAL	CutSmart® Buffer	10053984	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10053978	Pass

Assay Name/Specification	Lot # 10059157
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 Agel-HF™ 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 20-fold over-digestion of Lambda DNA with Agel-HF™, >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-HF™.	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 Agel-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Blue-White Screening (Terminal Integrity) A sample of LITMUS28i vector linearized with a 10-fold excess of Agel-HF™, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene	Pass

Assay Name/Specification	Lot # 10059157
results in <1% white colonies.	

This product has been tested and shown to be in compliance with all specifications.



Doreen Duquette
Production Scientist
11 Oct 2019



Jay Minichiello
Packaging Quality Control Inspector
03 Dec 2019