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New England Biolabs Certificate of Analysis

Product Name: AgeI-HF®
Catalog Number: R3552S
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.

Lot Number: 10046393
Expiration Date: 05/2021
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	
R3552SVIAL	AgeI-HF®	10044825	Pass	
B7204SVIAL	CutSmart® Buffer	10043912	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10038712	Pass	

Assay Name/Specification	Lot # 10046393
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
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
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 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



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Assay Name/Specification	Lot # 10046393
results in <1% white colonies.	

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

Production Scientist

26 Apr 2019

Michael Tonello

Packaging Quality Control Inspector

18 Jun 2019

