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## New England Biolabs Certificate of Analysis

Product Name: AvrII

Catalog Number: R0174L

Concentration: 5,000 U/mI

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (HindIII digest) in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10084359
Expiration Date: 09/2022
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0174S/L v1.0

AvrII Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
R0174LVIAL	AvrII	10084360	Pass
B7204SVIAL	CutSmart® Buffer	10085423	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084971	Pass

Assay Name/Specification	Lot # 10084359
Blue-White Screening (Terminal Integrity)	Pass
A sample of Litmus28i vector linearized with a 10-fold excess of AvrII, religated	
and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	
results in <170 write colonies.	
Endonuclease Activity (Nicking)	Pass
A 50 μl reaction in CutSmart™ Buffer containing 1 μg of supercoiled PhiX174 DNA and	
a minimum of 50 Units of AvrII incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
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 50 units of AvrII incubated for 4	
nours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 50-fold over-digestion of Lambda HindIII DNA with AvrII, >95% of the DNA	1 433



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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.

Penghua Zhang Production Scientist 30 Oct 2020

detection.

Michael Tonello

Packaging Quality Control Inspector

30 Oct 2020

