

New England Biolabs Certificate of Analysis

Product Name: *EaeI*
Catalog Number: *R0508L*
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 volume of 50 µl.*
Packaging Lot Number: *10167232*
Expiration Date: *10/2024*
Storage Temperature: *-20°C*
Storage Conditions: *200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA*
Specification Version: *PS-R0508S/L v1.0*

EaeI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0508LVIAL	EaeI	10167231	Pass
B6004SVIAL	rCutSmart™ Buffer	10164465	Pass

Assay Name/Specification	Lot # 10167232
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with EaeI, ~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 EaeI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 15 Units of EaeI 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 [³ H] E. coli DNA and a minimum of 25 units of EaeI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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.


YunJie Sun
Production Scientist
25 Oct 2022


Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
31 Oct 2022