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New England Biolabs Certificate of Analysis

Product Name: Taq(alpha)I
Catalog Number: R0149T
Concentration: 100,000 U/ml

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

of Lambda DNA in 1 hour at 65°C in a total reaction volume of 50 ·l.

Lot Number: 10022853
Expiration Date: 09/2020
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-R0149T/M v1.0

Taq(alpha)I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0149TVIAL	Taq(alpha)I	10022847	Pass	
B7204SVIAL	CutSmart® Buffer	10018444	Pass	

Assay Name/Specification	Lot # 10022853
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 Taqαl incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA DNA with Taqαl, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 25°C. Of these ligated fragments, >95% can be recut with Taqαl.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA DNA and a minimum of 200 Units of Taqαl incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



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Tony Spear-Alfonso Production Scientist 17 Sep 2018 Michael Tonello

Packaging Quality Control Inspector

10 Oct 2018

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