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New England Biolabs Certificate of Analysis

Product Name: Tagl-v2
Catalog Number: R0149L
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 65°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10068118
Expiration Date: 03/2022
Storage Temperature: -20°C

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

Glycerol , 500 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0149S/L v2.0

TaqI-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0149LVIAL	TaqI-v2	10068117	Pass	
B7204SVIAL	CutSmart® Buffer	10068803	Pass	

Assay Name/Specification	Lot # 10068119
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Taql-v2 is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with Taql-v2, >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 Taql-v2.	Pass
Functional Testing (15 minute Digest) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and 1 μl of Taql-v2 incubated for 15 minutes at 65°C results in complete digestion 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 Taql-v2 incubated	Pass



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Assay Name/Specification	Lot # 10068119
for 4 hours at 65°C releases <0.1% of the total radioactivity.	
Protein Purity Assay (SDS-PAGE) Taql-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of 200 units of Taql-v2 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.

Jianying Luo **Production Scientist**

NEW ENGLAND

28 Feb 2020

Jay Minichiello

Packaging Quality Control Inspector

10 Mar 2020



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