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New England Biolabs Certificate of Analysis

Product Name: Taql-v2
Catalog Number: R0149M
Concentration: 100,000 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: 10172462 Expiration Date: 12/2024 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-R0149T/M v2.0

TaqI-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0149MVIAL	TaqI-v2	10172460	Pass	
B6004SVIAL	rCutSmart™ Buffer	10165692	Pass	

Assay Name/Specification	Lot # 10172462
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with TaqI-v2, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 25°C. Of these ligated fragments,	Pass
>95% can be recut with Taql-v2. 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 200 units of Taql-v2 incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	
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
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	Pass



R0149M / Lot: 10172462

Page 1 of 2

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

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YunJie Sưń

Production Scientist 06 Dec 2022

by agarose gel electrophoresis.

Michael Tonello

Packaging Quality Control Inspector

07 Dec 2022



R0149M / Lot: 10172462

Page 2 of 2