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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 rCutSmart Buffer in 1 hour at 65°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10211285
Expiration Date: 11/2025
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 rAlbumin, (pH 7.4 @ 25°C)

Specification Version: PS-R0149T/M v3.0

Taql-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0149MVIAL	TaqI-v2	10211237	Pass	
B6004SVIAL	rCutSmart™ Buffer	10207415	Pass	

Assay Name/Specification	Lot # 10211285
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in rCutSmart™ 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.	
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
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ 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
Protein Purity Assay (SDS-PAGE) Taql-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



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

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YunJie Sun \
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21 Oct 2023

Michael Tonello

Packaging Quality Control Inspector

13 Nov 2023