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## New England Biolabs Certificate of Analysis

Product Name: Taql-v2
Catalog Number: R0149T
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: 10135269
Expiration Date: 09/2023
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

Taql-v2 Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0149TVIAL	Taql-v2	10122724	Pass	
B6004SVIAL	rCutSmart™ Buffer	10121395	Pass	

Assay Name/Specification	Lot # 10135269
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
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
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



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for 4 hours at 65°C releases <0.1% of the total radioactivity.

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.

Penghaa Zhang Production Scientist

18 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

18 Jan 2022



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