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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: 10069105 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-R0149T/M v2.0

Taql-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0149TVIAL	Taql-v2	10068118	Pass	
B7204SVIAL	CutSmart® Buffer	10064409	Pass	

Assay Name/Specification	Lot # 10069105
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) TaqI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass



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

detectable nuclease degradation as determined by agarose gel electrophoresis.

Jianying Luo Production Scientist

28 Feb 2020

Michael Tonello

Packaging Quality Control Inspector

05 Mar 2020

