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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: 10056203
Expiration Date: 10/2021
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0149LVIAL	Taql-v2	10056201	Pass	
B7204SVIAL	CutSmart® Buffer	10046088	Pass	

Assay Name/Specification	Lot # 10056203
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
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 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
Protein Purity Assay (SDS-PAGE) TaqI-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.

Production Scientist 06 Sep 2019

Michael Tonello

Packaging Quality Control Inspector

17 Oct 2019

