

New England Biolabs Certificate of Analysis

Product Name: TaqI-v2
Catalog Number: R0149S
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.
Lot Number: 10040810
Expiration Date: 04/2021
Storage Temperature: -20°C
Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 µg/ml BSA
Specification Version: PS-R0149S/L v1.0

TaqI-v2 Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0149SVIAL	TaqI-v2	10040555	Pass
B7204SVIAL	CutSmart® Buffer	10036669	Pass

Assay Name/Specification	Lot # 10040810
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA DNA with TaqI, >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 TaqI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA DNA and a minimum of 200 Units of TaqI incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 200 units of TaqI incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass

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



Doreen Duquette
Production Scientist
22 Apr 2019



Michael Tonello
Packaging Quality Control Inspector
30 Apr 2019