

New England Biolabs Certificate of Analysis

Product Name: Taq[®]I
Catalog Number: R0149M
Concentration: 100,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 ·g of Lambda DNA in 1 hour at 65°C in a total reaction volume of 50 ·l.
Lot Number: 10022855
Expiration Date: 09/2020
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-R0149T/M v1.0

Taq [®] I Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0149MVIAL	Taq [®] I	10022848	Pass
B7204SVIAL	CutSmart [®] Buffer	10018445	Pass

Assay Name/Specification	Lot # 10022855
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 Taq [®] I 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 DNA with Taq [®] I, >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 Taq [®] I.	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 Taq [®] I incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



Tony Spear-Alfonso
Production Scientist
05 Sep 2018



Michael Tonello
Packaging Quality Control Inspector
24 Oct 2018