

New England Biolabs Certificate of Analysis

Product Name: TspRI
Catalog Number: R0582S
Concentration: 10,000 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: 10064543
Expiration Date: 01/2022
Storage Temperature: -20°C
Storage Conditions: 200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA
Specification Version: PS-R0582S/L v1.0

TspRI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0582SVIAL	TspRI	10064541	Pass
B7204SVIAL	CutSmart® Buffer	10064409	Pass

Assay Name/Specification	Lot # 10064543
<p>Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with TspRI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with TspRI.</p>	Pass
<p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 50 Units of TspRI incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>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 50 units of TspRI incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) TspRI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.</p>	Pass

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

Stephanie Cornelio

Stephanie Cornelio
Production Scientist
10 Jan 2020

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
10 Feb 2020