

New England Biolabs Certificate of Analysis

Product Name: EcoP15I
Catalog Number: R0646S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount enzyme required to digest 1 µg of pUC19 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10070478
Expiration Date: 03/2021
Storage Temperature: -20°C
Storage Conditions: 100 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-R0646S/L v2.0

EcoP15I Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0646SVIAL	EcoP15I	10070477	Pass
B7203SVIAL	NEBuffer™ 3.1	10053976	Pass
B6101SVIAL	10X ATP	10060921	Pass

Assay Name/Specification	Lot # 10070478
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 units of EcoP15I incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of EcoP15I incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pUC19 DNA and a minimum of 50 Units of EcoP15I incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) EcoP15I is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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



Penghua Zhang
Production Scientist
07 May 2020



Jay Minichiello
Packaging Quality Control Inspector
07 May 2020