

## 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.  
**Lot Number:** 10050215  
**Expiration Date:** 07/2020  
**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	10050216	Pass
B7203SVIAL	NEBuffer™ 3.1	10041001	Pass
B6101SVIAL	10X ATP	10039326	Pass

Assay Name/Specification	Lot # 10050215
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Non-Specific DNase Activity (16 Hour)</b> 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
<b>Protein Purity Assay (SDS-PAGE)</b> EcoP15I is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
<b>Endonuclease Activity (Nicking)</b> 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

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



Jianying Luo  
Production Scientist  
12 Apr 2019



Jay Minichiello  
Packaging Quality Control Inspector  
07 Aug 2019