

## New England Biolabs Certificate of Analysis

**Product Name:** EcoP15I  
**Catalog Number:** R0646L  
**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:** 10039322  
**Expiration Date:** 03/2020  
**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
R0646LVIAL	EcoP15I	10039323	Pass
B7203SVIAL	NEBuffer™ 3.1	10021112	Pass
B6101SVIAL	10X ATP	10025268	Pass


Assay Name/Specification	Lot # 10039322
<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
<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

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



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Jianying Luo  
Production Scientist  
16 Oct 2018



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Michael Tonello  
Packaging Quality Control Inspector  
18 Mar 2019