

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	EcoP15I
Catalog #:	R0646S/L
Concentration:	10,000 units/ml
Unit Definition:	One unit is defined as the amount enzyme required to digest 1 μ g of pUC19 DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Lot #:	0221710
Assay Date:	10/2017
Expiration Date:	10/2018
Storage Temp:	-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
Effective Date:	09 Jan 2015

Assay Name/Specification (minimum release criteria) 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 EcoP151 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in NEBuffer 3.1 containing 1 μ g of pUC19 DNA and a minimum of 50 Units of EcoP151 incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE) - EcoP15I is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

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Authorized by Derek Robinson 09 Jan 2015



Inspected by Jianying Luo 17 Oct 2017