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## New England Biolabs Product Specification

Product Name:	EcoP15I
Catalog #:	R0646S/L/V
Concentration:	10,000 units/ml
Unit Definition:	One unit is defined as the amount enzyme required to digest 1 $\mu$ g of pUC19 DNA in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l.
Shelf Life:	12 months
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:	05 Jan 2015

Assay Name/Specification (minimum release criteria)

Endonuclease Activity (Nicking) - A 50  $\mu$ l reaction in NEBuffer 3.1 containing 1  $\mu$ g 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.

**Exonuclease Activity (Radioactivity Release)** - A 50  $\mu$ l reaction in NEBuffer 3.1 containing 1  $\mu$ g of a mixture of single and doublestranded [<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.

Non-Specific DNase Activity (16 Hour) - A 50  $\mu$ l reaction in NEBuffer 3.1 containing 1  $\mu$ 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.

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Date 05 Jan 2015

Derek Robinson Quality Approver



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