

## New England Biolabs Certificate of Analysis

**Product Name:** pUC19 Vector  
**Catalog #:** N3041S/L  
**Concentration:** 1,000 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0401608  
**Assay Date:** 08/2016  
**Expiration Date:** 08/2018  
**Storage Temp:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3041S/L v1.0  
**Effective Date:** 01 Dec 2015

Assay Name/Specification (minimum release criteria)	Lot #0401608
<b>A260/A280 Assay</b> - The ratio of UV absorption of pUC19 Vector at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> - The concentration of pUC19 Vector is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Plasmid)</b> - The banding pattern of pUC19 Vector on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.	<b>Pass</b>
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> - A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of pUC19 Vector incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Restriction Digest (Linearization)</b> - A 50 µl reaction in CutSmart™ Buffer containing 5 µg of pUC19 Vector DNA and 20 units of XbaI incubated for 1 hour at 37°C produces > 95% linearization resulting in a single band of approximately 2686 bp as determined by agarose gel electrophoresis.	<b>Pass</b>



Authorized by  
Derek Robinson  
01 Dec 2015



Inspected by  
Vanessa Mathieu-sheltry  
22 Aug 2016

