

## New England Biolabs Certificate of Analysis

**Product Name:** pUC19 Vector  
**Catalog Number:** N3041L  
**Concentration:** 1,000 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10190504  
**Expiration Date:** 04/2025  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3041S/L v1.0

pUC19 Vector Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041LVIAL	pUC19 Vector	10188105	Pass

Assay Name/Specification	Lot # 10190504
<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.	Pass
<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.	Pass
<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.	Pass
<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.	Pass
<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.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Vanessa Mathieu-Sheltry  
Production Scientist  
20 Apr 2023



Michael Tonello  
Packaging Quality Control Inspector  
03 May 2023