NEW ENGLAND BioLabs Inc.

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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:	*10144210*
Expiration Date:	*03/2024*
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	10144209	Pass

Assay Name/Specification	Lot # 10144210
Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of pUC19 Vector incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Electrophoretic Pattern (Plasmid) 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
Restriction Digest (Linearization) 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
A260/A280 Assay The ratio of UV absorption of pUC19 Vector at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) The concentration of pUC19 Vector is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass

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

nqa. ISO 9001 Registered Quality Management
nqa. ISO 13485 Registered Medical Devices
nqa. ISO 14001 Registered Environmental Management

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22 Mar 2022

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22 Mar 2022