

## New England Biolabs Certificate of Analysis

**Product Name:** pBR322 Vector  
**Catalog #:** N3033S/L  
**Concentration:** 1,000 µg/ml  
**Unit Definition:** N/A  
**Lot #:** 0931511  
**Assay Date:** 11/2015  
**Expiration Date:** 11/2017  
**Storage Temp:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification Version:** PS-N3033S/L v1.0  
**Effective Date:** 08 Jul 2014

Assay Name/Specification (minimum release criteria)	Lot #0931511
<b>A260/A280 Assay</b> - The ratio of UV absorption of pBR322 Vector at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> - The concentration of pBR322 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 pBR322 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 pBR322 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 NEBuffer 2.1 containing 5 µg of pBR322 Vector DNA and 20 units of HindIII incubated for 1 hour at 37°C produces > 95% linearization resulting in a single band of approximately 4361 bp as determined by agarose gel electrophoresis.	<b>Pass</b>



Authorized by  
Derek Robinson  
08 Jul 2014



Inspected by  
Vanessa Mathieu-Sheltry  
11 Apr 2016

