

New England Biolabs Certificate of Analysis

Product Name: *pBR322 Vector*
Catalog #: *N3033S/L*
Concentration: *1,000 µg/ml*
Unit Definition: *N/A*
Lot #: *0931704*
Assay Date: *04/2017*
Expiration Date: *4/2019*
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 #0931704
A260/A280 Assay - The ratio of UV absorption of pBR322 Vector at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) - The concentration of pBR322 Vector is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass
Electrophoretic Pattern (Plasmid) - 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.	Pass
Non-Specific DNase Activity (DNA, 16 hour) - 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.	Pass
Restriction Digest (Linearization) - 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.	Pass



Authorized by
Derek Robinson
08 Jul 2014



Inspected by
Vanessa Mathieu-Sheltry
25 Apr 2017

