

New England Biolabs Certificate of Analysis

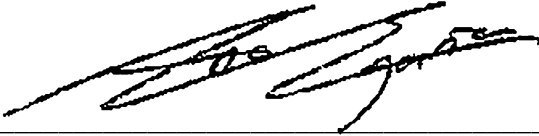
Product Name: pBR322 Vector
Catalog Number: N3033S
Concentration: 1,000 µg/ml
Unit Definition: N/A
Packaging Lot Number: 10079972
Expiration Date: 07/2022
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA
Specification Version: PS-N3033S/L v1.0

pBR322 Vector Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3033SVIAL	pBR322 Vector	10079971	Pass

Assay Name/Specification	Lot # 10079972
DNA Concentration (A260) The concentration of pBR322 Vector is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.	Pass
A260/A280 Assay The ratio of UV absorption of pBR322 Vector at 260 and 280 nm is between 1.8 and 2.0.	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
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
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

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

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Ana Egana
Production Scientist
04 Sep 2020



Michael Tonello
Packaging Quality Control Inspector
04 Sep 2020