NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Product Name:	*pBR322 Vector*
Catalog Number:	*N3033L*
Concentration:	*1,000 µg/ml*
Unit Definition:	*N/A*
Lot Number:	*10040305*
Expiration Date:	*04/2021*
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**
N3033LVIAL	pBR322 Vector	10040306	**Pass**

Assay Name/Specification	**Lot # 10040305**
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 37ºC 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**

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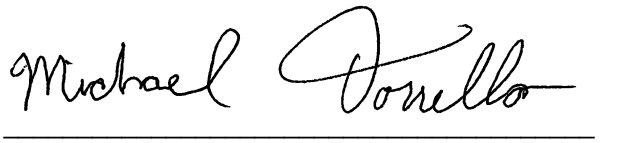
This product has been tested and shown to be in compliance with all specifications.

Vanessa Mathieu-Sheltry
Production Scientist
26 Mar 2019



Michael Tonello
Packaging Quality Control Inspector
03 Apr 2019