

New England Biolabs Certificate of Analysis

Product Name: *pBR322 Vector*
Catalog Number: *N3033L*
Concentration: *1,000 µg/ml*
Unit Definition: *N/A*
Packaging Lot Number: *10246123*
Expiration Date: *05/2026*
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 | 10243199 | Pass |

| Assay Name/Specification | Lot # 10246123 |
|--|----------------|
| 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 |

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

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Production Scientist
22 May 2024



Michael Tonello
Packaging Quality Control Inspector
06 Jun 2024