

# pBR322 DNA



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N3033S 091120414041

## N3033S

50 µg Lot: 0911204 Exp: 4/14

1,000 µg/ml Store at -20°C

**Description:** pBR322 DNA is a commonly used plasmid cloning vector in *E. coli* (1). The molecule is a double-stranded circle 4,361\* base pairs in length (2). pBR322 contains the genes for resistance to ampicillin and tetracycline, and can be amplified with chloramphenicol. The molecular weight is  $2.83 \times 10^6$  daltons.

Supplied in: 10 mM Tris-HCl (pH 8.0),  
1 mM EDTA.

**Preparation:** pBR322 is isolated from *E. coli* ER2420 (dam<sup>+</sup>dcm<sup>+</sup> EcoK<sup>M</sup>-) by a standard plasmid purification procedure.

### References:

1. Bolivar, F., Rodriguez, R. L., Greene, P. J., Betlach, M. C., Heynecker, H.L. and Boyer, H.W. (1977) *Gene* 2, 95–113.
2. Watson, N. (1988) *Gene* 70, 399–403

\*Sequencing data from Watson (confirmed at New England Biolabs, Inc.) has shown pBR322 to be 4,361 base pairs, not 4,363 base pairs as previously reported.

CERTIFICATE OF ANALYSIS

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