



## Plasmid pBR322

Cat. No. 15367-014

Size: 25 µg

Conc.: 0.25 µg/µl

Store at 4°C.

### Description:

Plasmid pBR322 is purified from *E. coli* DH10B. It contains three unique restriction endonuclease recognition sites within the β-lactamase (ampicillin-resistance) gene, eight unique sites within the tetracycline-resistance gene and 14 nonselectable unique restriction endonuclease recognition sites. Unique cleavage sites for *Hind* III and *Cla* I are found in the promoter of the tetracycline-resistance gene. Insertion of DNA at either of these two sites usually results in loss of tetracycline resistance. This DNA is qualified for cloning experiments. Vector sequences, restriction information, and maps can be found in the Vector Data area of our web site, [www.invitrogen.com](http://www.invitrogen.com).

### Storage Buffer:

10 mM Tris-HCl (pH 7.4)  
5 mM NaCl  
0.1 mM EDTA

### Molecular Weight (1-3):

$2.8 \times 10^6$  daltons  
(4363 base pairs)

### Quality Control:

Purity, DNA structure, and selected restriction endonuclease fragmentation patterns are verified by agarose gel analysis. Transformation of *E. coli* HB101 to Ap<sup>r</sup> and Tc<sup>r</sup> is confirmed by plating on selective medium.

### References:

1. Balbás, P., Soberón, X., Merion, E., Zurita, M., Lomeli, H., Valle, F., Flores, N., and Bolivar, F. (1986) *Gene* 50, 3.
2. Sutcliffe, J. G. (1979) *Cold Spring Harbor Symp. Quant. Biol.* 43, 77.
3. Peden, K. W. C. (1983) *Gene* 22, 277.

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This product is distributed for laboratory research only. CAUTION: Not for diagnostic use. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

For technical questions about this product, call the Invitrogen Tech-LineSM U.S.A. 800 955 6288