



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

pBR322 Plasmid DNA from *Escherichia coli* RRI

Catalog Number **D4904**
Storage Temperature -20°C

CAS RN 93384-17-9
Accession number: J01749

Product Description

One of the most commonly used cloning vectors, pBR322 confers resistance to ampicillin and tetracycline. The DNA sequence of the entire plasmid has been published.¹

Unique Sites:

Within the gene for ampicillin resistance:

Pst I, *Pvu* I, *Sca* I

Within the gene for tetracycline resistance:

Bam H I, *Bsp* M I, *Eco* R V, *Nhe* I, *Nru* I, *Sal* I, *Sph* I

other unique sites:

Aat II, *Ava* I, *Bsm* I, *Cla* I, *Eco* R I, *Hind* III, *Nde* I,
Pvu II, *Ssp* I, *Sty* I, *Tth* 111 I

Molecular Mass:

2.9×10^6 Da
4,363 base pairs

The product is supplied in a solution containing 10 mM Tris-HCl, pH 8.0, with 1 mM EDTA.

One A_{260} unit is ~ 50 μg of DNA.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -20°C is recommended.

References

Sutcliffe, J.G., Complete nucleotide sequence of the *Escherichia coli* plasmid pBR322. Cold Spring Harb. Symp. Quant. Biol., **43**, 77-90 (1979).

JB,KH,MAM 01/07-1

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.