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Product Information

pBR322 Plasmid DNA from *Escherichia coli* RRI

Catalog Number **D9893**
Storage Temperature 2–8 °C

CAS RN 9334-17-9
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

The product is isolated from *Escherichia coli* (ATCC 37017) and supplied as a lyophilized powder. It is lyophilized from a solution containing 1 mM Tris-HCl, pH 7.5, 1mM NaCl, and 1 mM EDTA.

Molecular weight: 2.9×10^6 Da
4,363 base pairs

Note: One A₂₆₀ unit is equivalent to ~50 µg of DNA.

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, *Xma* III

Other unique sites: *Aat* II, *Ava* I, *Bal* I, *Bsm* I, *Bsp* M II,
Cla I, *Eco* R I, *Hind* III, *Nde* I, *Pvu* II, *Ssp* I, *Sty* I,
Tth 111 I

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.

References

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

JB,KH,MAM 12/06-1

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