

pBR322 DNA

Catalog Number:

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|--------------------------|----------------------------------|---------------|
| <input type="checkbox"/> | <i>2036-1 Supercoiled pBR322</i> | <i>50 ug</i> |
| <input type="checkbox"/> | <i>2036-2 Supercoiled pBR322</i> | <i>250 ug</i> |
| <input type="checkbox"/> | <i>2037-1 Relaxed pBR322</i> | <i>50 ug</i> |
| <input type="checkbox"/> | <i>2037-2 Relaxed pBR322</i> | <i>250 ug</i> |
| <input type="checkbox"/> | <i>2038-1 Linear pBR322</i> | <i>10 ug</i> |



Product Description

•The pBR322 has been modified by TopoGEN Scientists to improve its utility. These modifications are proprietary. The DNA is ideally suited for use in all topoisomerase assays both for relaxation and supercoiling. Our DNA substrates are pretested and shown to support relaxation and supercoiling.

Quality Control Analysis

- Purity was determined spectroscopically using A260/A280 ratio method. Incubation under conditions optimal for Gyrase activity did not result in any detectable conversion of the DNA to nicked or linear DNA forms.
- The plasmids are produced by large scale alkaline lysis from a high copy derivative of pBR322. For both supercoiled and relaxed DNA substrates greater than 85% of the DNA will be supercoiled (form I) DNA the remainder as nicked open circular (form II) DNA. There are no detectable linear DNA forms. The DNA has been tested with prokaryotic and eukaryotic enzymes.
- For linear DNA Marker >98% of the DNA will be as linear (form III) DNA.

Storage Buffer

•All DNAs are stored in TE buffer (10 mM Tris-Cl (pH 7.5), 1 MM EDTA) at the concentration specified in the above upper right-hand corner.

Storage and Shipping Conditions

These DNAs should be stored at 4°C. The DNA is shipped at ambient temperature (or may be shipped on dry ice with enzyme shipments).

References

Boros et al., (1984) High copy derivative of the plasmid pBR322. Gene 30: 257-260

Sambrook et al. (1989). Molecular Cloning: A Laboratory Manual. Cold Spring Harbor Press, Cold Spring Harbor, NY

Product Application and Disclaimer

This product is not licensed or approved for administration to humans or animals. It may be used with experimental animals only. The product is for in vitro research diagnostic studies only. The product is non-infectious and non-hazardous to human health. This information is based on present knowledge and does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. TopoGEN, Inc. shall not be held liable for product failure due to mishandling and incorrect storage by end user. TopoGEN's liability is limited to credit or product replacement.



TopoGEN, Inc.

For orders: www.topogen.com

For Technical Questions: 614-451-5810

or support@topogen.com

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