

Datasheet for ABIN3188191

DpnI

Overview

Quantity: 2000 U

Application: Restriction Digest (RD)

Product Details

Characteristics: The DpnI restriction enzyme digests DNA at GmeATC sites, requiring N6-methylation of the adenine residue for activity. DNA purified from a dam⁺ strain will be a substrate for DpnI due to the adenine methylation. DpnI cleaves hemi-methylated dam sites 60 X more slowly than fully methylated.

Components: Enzyme supplied with 10X Reaction Buffer

Unit Definition: One unit is defined as the amount of DpnI required to digest 1 µg of dam methylated pBR322 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.

Application Details

Comment:

- Molecular cloning
- Site directed mutagenesis
- Restriction site mapping
- Genotyping
- Southern Blot
- SNP
- Restriction fragment length polymorphism (RFLP)

Restrictions: For Research Use only

Handling

Concentration: 20 U/µL

Buffer: 10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 500 µg/mL BSA, and 50 % (v/v) Glycerol.

Handling

Storage: -20 °C

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)