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Storage Conditions (−20 °C)
Shipping Conditions (−20 °C)

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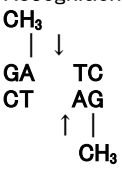
Dpn I

Recognition Sequence



Code No. DPN−101

Lot No. ******

Size 1,000 units

Source *Diplococcus pnuemoniae G41*

Concentration : ** units/μL

Unit Definition : One unit is defined as the amount of enzyme required to completely digest 1 μg of pBR322 DNA in 1 hr at 37 °C in 50 μL of assay buffer.

Storage Buffer :

10	mM	Tris−HCl(pH7.4)
400	mM	NaCl
1	mM	Dithiothreitol
0.1	mM	EDTA
200	μg/mL	Bovine serum albumin
50	%(V/V)	Glycerol

Assay Buffer :

33	mM	Tris−acetate (pH7.9)
10	mM	Magnesium acetate
66	mM	Potassium acetate
1	mM	Dithiothreitol

Reaction Buffer (Attached)

TA Buffer (x10 Concentration)

330	mM	Tris−acetate (pH7.9)
100	mM	Magnesium acetate
660	mM	Potassium acetate
5	mM	Dithiothreitol

Overdigestion: When 13 units of enzyme was incubated with 1 μg of λ DNA for 16 hrs at 37°C in 50 μL of assay buffer, a normal and sharp pattern was shown on an agarose gel electrophoresis.

Ligation and Recutting: After digestion of pBR322 DNA by 8 units of enzyme for 4hrs at 37°C, 50% of the fragment was ligated with T4 DNA Ligase. 90% of the ligated DNA could be recut under the standard conditions.

Note

① DpnI cleaves only when its recognition site is methylated. DNA purified from a dam+ strain will be substrate for DpnI

② Enzyme quantity cutting each DNA[1μg]

λ−DNA	pBR322	pUC19	M13mp18
>20	1	5	>20

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information

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