



Applied Biological Materials Inc

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Apal

Store at -20°C

Cat. No.	Description	Concentration	Quantity
E063	Apal	50000 U/ml	25000 U (500 µl)

Product Description

The Apal enzyme recognizes and cuts the sequence GGGCC[^]. For restriction enzyme digestion of double-stranded DNA.

Recognition Sequence

5'...GGGCC^v...3'
3'...CCCGGG...5'
▲

Methylation Sensitivity

dam methylation: Not sensitive
dcm methylation: Blocked by overlapping
CpG methylation: Blocked by overlapping

Kit Components

Part No.	Product Components	Quantity
E063	Apal (50000 U/ml)	500 µl
E204	10X Universal Restriction Enzyme Reaction Buffer	2 x 1.25 ml

Product Source

An *E. coli* strain that carries the Apal gene from *Acetobacter pasteurianus* sub. *pasteurianus* (ATCC 9432).

Enzyme Storage Buffer

10mM Tris pH (7.5), 50mM KCl, 1mM DTT, 0.1mM EDTA, and 50% (v/v) Glycerol.

Enzyme Unit Definition

One unit is defined as the amount of restriction enzyme needed to digest 1 µg of pXba DNA in 1 hour at 25°C in a reaction volume of 50 µl.

Storage Conditions

Store all components at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for 1 year from the date of shipping when stored and handled properly.

Reaction Conditions

1X Universal Restriction Enzyme Reaction Buffer (Cat. E204) and incubate at 25°C. Apal has 100% activity but a reduced half-life of 30 minutes at 37°C, and is inhibited by salt concentrations over 50mM.

Reaction Buffer Compatibility

Buffer 1: 25%, Buffer 2: 25%, Buffer 3: 10%, **Universal Buffer: 100%**

Heat Inactivation

Heat at 65°C for 20 minutes.