

XbaI

Product Number: M011501

Shipping and Storage

Store at -20±5°C.

Components

Component	M011501	M011501
XbaI (15U/μl)	100μl	500μl
10×XbaI Reaction Buffer	500μl	500μl×5

Description

Restrictive endonucleases, also known as restriction enzymes, are a type of nucleic acid endonucleases that recognize specific deoxyribonucleotide sequences and cleave the phosphodiester bond between two deoxyribonucleotides at a specific location in each strand. Restriction enzymes are an important component of the restriction modification system, and their biological function is mainly to protect the host from foreign DNA infection. They are widely used in various fields such as gene localization and cloning, gene structure research, DNA sequence analysis and determination, gene synthesis, etc. This product is a recombinant protein encoded by the XbaI R gene of *Xanthomonas campestris*, which is a type II restriction endonuclease. This product strictly controls the residue of host nucleases, with high enzyme activity and strong specificity.

Features

This product has strong specificity and can be specifically cleaved for the DNA sequence it recognizes. The recognition sequence is as follows:

5'...T↓CTAGA...3'

3'...AGATC↑T...5'

Application

1. Linearization of in vitro transcription templates;
2. Molecular cloning;
3. Genotyping;
4. Southern hybridization;
5. SNP;
6. Restrictive fragment length polymorphism (RFLP).

Unit definition

In a 50μl reaction solution, react at 37°C for 1 hour, and define the amount of enzyme that completely decomposes 1μg of substrate DNA as 1 active unit (U).

Storage system

10mM Tris-HCl, 50mM NaCl, 1mM DTT, 0.1mM EDTA, 50% (v/v) Glycerol, 0.05% PS-80 (pH7.4).

Reaction system

10×XbaI Reaction Buffer	5μl
DNA	1μg
XbaI (15U/μl)	1μl



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RNase Free Water

Up to 50µl

37°C, reaction for 1-16 hours, after completion of the reaction, incubate at 65°C for 20 minutes to terminate the reaction.

Note

1. XbaI may exhibit star activity at high glycerol concentrations;
2. XbaI is sensitive to Dam methylation and insensitive to Dcm and mammalian CpG methylation;
3. The same tail enzymes of XbaI include AVrII, NheI, SpeI;
4. XbaI may exhibit star activity in systems with low salt ion concentrations;
5. Try to minimize the exposure time of enzymes above -20°C.

Related products

Product number	Product name
E131	T7 High Yield RNA Transcription kit
GMP-M062	Vaccinia Capping Enzyme, GMP Grade
GMP-M072	mRNA Cap 2'O Methyltransferase, GMP Grade
CP082	Cap 1 Capping System Kit