For research use only ISO9001

Lambda Integrase / Excisionase

Product	Quantity	Cat. No.	Remarks
Lambda Integrase /excisionase	100 rxn	EBT-3043	for an *in vitro* recombination

Description

Lambda Integrase/Excisionase mediate the recombination reaction of lambda into the *E. coli* chromosome specific site. Lambda Integrase/excisionase perform a recombination reaction between an *att*L-containing DNA vector and an *att*R-containing vector to generate an expression clone. Lambda Integrase/excisionase is purified from a recombinant *E.coli* strain.

5x Lambda Integrase Reaction Buffer

200mM Tris-HCl, pH7.4, 10mM DTT, 10mM EDTA (pH 8), 25mM Spermidine, 500ug/ml BSA

Usage

100 reactions (2㎕/ 10㎕ reaction volume)

Reaction Conditions

Incubate at 25°C in 1x Lambda Integrase/Excisionase reaction buffer.

Protocol for Recombination using Lambda Integrase/excisionase

1. Prepare Integrase/excisionase reaction mixture as follows

plasmid DNA (attL contain)	1-5 ㎕ (supercoiled 100-300ng)
vector DNA (attR contain)	1 ㎕ (supercoiled 150ng/ul)
5x Reaction Buffer :	2 ㎕
Lambda Integrase/excisionase	2 ㎕

   Adjust volume to 10 ㎕ with TE Buffer (pH8.0)

2. Incubate at 25°C for 1 hour .
3. Add 1 ㎕ of 2 ㎍/㎕ Proteinase K and incubate at 37°C for 10 min.
4. Transform *E.coli.* competent cells and select for the appropriate antibiotic-resistant clones.

QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.

Storage Condition

Store at -20℃.

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