For research use only ISO9001

Lambda Integrase

Product	Quantity	Cat. No.	Remarks
Lambda Integrase	100 rxn	EBT-3042	for an *in vitro* recombination

Description

Lambda Integrase catalyzes integration of lambda into the *E. coli* chromosome specific site. Lambda Integrase perform a recombination reaction between an *att*B-containing DNA fragment and an *att*P-containing vector to generate an entry clone. Lambda Integrase is purified from a recombinant *E.coli* strain.

5x Lambda Integrase Reaction Buffer

125mM Tris-HCl. pH 8.0, 25mM EDTA, 150mM NaCl, 12.5mM DTT, 30mM Spermidine, 2.5mg/ml BSA

Usage

100 reactions (2 ㎕/ 10 ㎕ reaction volume)

Reaction Conditions

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

Protocol for Recombination using Lambda Integrase

1. Prepare Integrase reaction mixture as follows

Vector DNA (attP contain):	1 ㎕ (supercoiled 150ng/ul)
PCR DNA (attB contain) :	1-5 ㎕ (PCR DNA 40 – 100 fmol)
5x Reaction Buffer :	2 ㎕
Lambda Integrase :	2 ㎕

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

2. Incubate at 25°C for 1 hour .
3. Add 1ul 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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