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Manual

KineX

Enzymatic mix for rapid preparation of PCR-derived DNA fragments for blunt end cloning.

catalog #	size
1008-20	20 reactions
1008-100	100 reactions

For research use only.

Guarantee

A&A Biotechnology provides guarantee on this product.
The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

Description

KineX is an enzyme mixture suitable for preparing DNA fragments for cloning into blunt-end plasmid vectors. DNA fragment containing 5'- or 3'-protruding termini are being blunted and 5'-OH groups are phosphorylated. KineX enzyme mixture contains thermostable polynucleotide kinase - enzyme with blunt-ending dsDNA activity.

Application

- fast phosphorylation
- rapid preparation of PCR-derived DNA fragments for blunt end cloning

Contents

	1008-20	**1008-100**	**storage**
KineX mix	50 µl	250 µl	-20 °C
Nucleotide mix (dNTPs, ATP)	50 µl	250 µl	-20 °C
KineX reaction buffer (10x concentrated)	500 µl	1.5 ml	-20 °C
EDTA (200 mM)	500 µl	1.5 ml	-20 °C

Example protocol

PCR products from any DNA polymerase could be treated in KineX reaction prior to ligation with a blunt vector.

1. A **For PCR products:**
To PCR mixture, after PCR reaction (0.2-2 µg of DNA), add:

component	specific final volume of PCR mixture
nucleotide mix	1/20 volume
KineX mix	1/20 volume

Follow point 2. of the protocol.

1. B **For other DNA fragments:**
To mixture with linear DNA fragment (0.2-2 µg of DNA), add:

component	specific final volume of DNA sample
KineX reaction buffer	1/10 volume
nucleotide mix	1/20 volume
KineX mix	1/20 volume

Follow point 2. of the protocol.

2. Incubate for 5 min at temp. 70 °C.

3. Purify the PCR product using Clean-Up kit (# 021-50, 021-250) or separate it by agarose electrophoresis and isolate by Gel-Out kit (# 023-50, 023-250).

4. If the PCR product is not purified immediately after the reaction, add **1/10 volume of 200 mM EDTA** of the sample final volume. Store the PCR product at -20 °C up to +4 °C until purification.

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