

Product information

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Fast DNA Ligation Kit

Catalog #: BS511 / BS512
Size: 10 preps / 50 preps
Storage: -20°C*

*: Product will be shipped with ice pack. Check storage conditions.

Product Description:

This kit is suitable for cohesive or blunt ends and all common ligation reactions.

Features:

- Fast: 10 minutes for both cohesive and blunt ends.
- Convenient: ligation performed at room temperature.
- Flexible: suitable for all common ligation reactions.

Storage:

The kit is stable for 24 months at -20°C.

Composition:

Components	BS511 (10 Preps)	BS512 (50 Preps)
Fast DNA Ligase	10 µl	50 µl
2 x Reaction buffer	100 µl	500 µl

Procedure:

To a microcentrifuge tube, add:

1. Prepare the mixture.

Plasmid (50-100ng)*	x µl
Foreign DNA to be inserted*	y µl
dd-Water or TE buffer, pH 7.8	z µl

Make final volume to be 9 µl	

*Ligation reaction mixture should contain >1-3 fold molar excess of foreign DNA termini to vector DNA. The maximum amount of vector DNA is 200 ng. Ligation efficiency may decrease as insert size increases.

2. Add 10 µl of 2x reaction buffer and mix.

3. Add 1 µl of Fast DNA Ligase.

4. Vortex and spin down in a microcentrifuge for 3-5 seconds.

5. Incubate the mixture at room temperature for 10 minutes**.

**To achieve maximum yield of recombinants, incubation time may be prolonged (up to 1 hour).

6. Use 2-5 μ l of ligation mixture for transformation***. Keep on ice or store at -20°C for further use.

***The ligation mixture can be used directly for bacterial transformation by the calcium chloride method. A maximum 5 μ l of the ligation reaction mixture should be used for subsequent transformation assay.

NOTE: Inactivation by heating is not recommended. This may reduce subsequent transformation efficiency.



PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY.
NOT INTENDED FOR HUMAN OR ANIMAL USE.