

DNA Quick  
Ligation Kit  
(20reactions)



L K006

Lot: 8

Store at -20C

**Ligation reaction protocol ( for 20 µl )**

1. Mix: H<sub>2</sub>O - calculated quantity  
2 x Quick Ligation Buffer - 10 µl  
Add DNA  
Add 1 µl Quick T4 DNA Ligase
2. Incubate at room temperature (+25 °C) for 5 min.
3. Cool the mixture on ice, store at -20 °C.

**The Quick Ligation Kit includes:**

1. Quick T4 DNA Ligase (recombinant, 2000 u/µl) - 20µl
2. 2 x Quick Ligation Buffer - 200µl  
(132 mM Tris-HCl (pH 7.6 at 25 °C); 20 mM MgCl<sub>2</sub>, 2 mM DTT; 2 mM ATP; 15% PEG 6000).  
Mix thoroughly before use.

**Notes on Use:**

Before the first use the 2X SE-DNA Quick Ligation Buffer should be divided into small aliquots and store at -20 °C. Avoid defrosting this Buffer more than 2-3 times. The Buffer can be stored at +4 °C during 7 days. The efficiency of ligation starts to decrease after 2 hours of incubation and is reduced by up to 75% if the reaction is allowed to go overnight at 25 °C. Before using the products of a Quick Ligation reaction for electrotransformation, it is necessary to reduce the PEG concentration by precipitation with Ethanol, and resuspending in H<sub>2</sub>O.

