Here it he Blunt end cloning protocol:

Blunt end cloning:

1.  digested and purified DNA is mixed with 1 U/ug DNA of Klenow polymerase and 20 uM each dNTP ) in reaction buffer and water - 30-50 ul final vol.

2. Incubate at 37 deg for 10 min.

3. Heat inactivate polymerase by treating reaction to 75 deg for 10 min (or purify the DNA for subsequent dephosphorylation reaction).

Dephosphorylation:

 Incubate purified, digested vector DNA with 1 U CIP in CIP buffer (or buffer 4)  in 50 ul volume at 37 deg for 15 min.

2. Heat inactivate phosphatase by incubating at 65 deg for 15 min and adding EDTA. (not necessary; usually not done if purifying the DNA is step 3)

3. Purify the DNA (qiagen PCR purification or electrophoresis followed by gel extraction)