



CLONESAVER™ CARD

Description: Your plasmids are provided on CloneSaver™ Cards (product of Whatman®). These cards use FTA technology and allow plasmid DNA to be stored at room temperature for years without degradation. The DNA can be recovered for transformation into competent *E. coli* by following the instructions below.

Handling and Storage: Always wear gloves to avoid contamination of your sample on the CloneSaver™ Card. Store cards at room-temperature in a dark, dry place.

General Protocol:

1. Use a clean razor blade to cut out a 3 mm disk containing the plasmid from the CloneSaver™ Card. Each well represents one plasmid - the area with the plasmid on it is white rather than pink.
2. After cutting out a portion of the card containing the plasmid, transfer it to a microfuge tube.
3. Wash the card by adding 200µl of sterile 0.1x TE buffer to the tube and gently pipetting the buffer up and down twice. Completely remove and discard the buffer. (Note: To minimize plasmid loss, do not leave the card in wash buffer longer than necessary.)
4. Repeat step 3 and then remove all traces of the 0.1x TE buffer.
5. Perform transformation.

Using heat-shock: Add 5 µl of 0.1x TE buffer to the washed card and incubate at room temperature for 10 minutes. Place the microfuge tube on ice for 5 minutes. Then add chemically competent cells directly into the tube containing the card and eluate. Perform transformation as usual.

Electroporation from eluate: Add 5 µl of 0.1x TE buffer to the washed card and incubate at room temperature for 10 minutes. Transfer 2 µL of eluate to a chilled tube and add 20 µL of electrocompetent cells. Incubate on ice for 10 minutes. Perform electroporation as usual.

Electroporation directly from card: (For low copy number plasmids) Add 20 µL of electrocompetent cells to the card. Incubate on ice for 10 min. Perform electroporation as usual.