

## Manual extraction of plasmid DNA (from Chen Zhon et al., 1990):

## Sample material:

Pellet from clones with appropriate inserts, harvested after overnight growth at 37° C in sterile liquid LB medium (5-10 ml in glass tubes, with appropriate antibiotics (which was used when you generated the clones). Store pellets at -20 °C until further processing.

## **Reagents:**

- o 3 M Sodium Acetate pH 5.2
- Ice cold EtOH (molecular grade)
- o 70 % ice cold EtOH (molecular grade)
- o TENS solution 100 ml:

-1 M TE Buffer	1 ml
-0,5 M EDTA	200 µl
-2 M NaOH	5 ml
-10 % SDS	5 ml
-Sterile MQ	88,8 ml

## **Procedure:**

- 1) Add 300  $\mu$ l TENS solution to the pellets in their eppendorf tubes. Vortex.
- 2) Add 150 µl 3 M sodium acetate (pH 5,2). Vortex.
- 3) Centrifuge for 2 min at < 13, 000 rpm.
- Transfer the supernatant to a new sterile eppendorf tube and add 900 μl ice cold 96 % EtOH.
- 5) Centrifuge for 2 min at < 13,000 rpm.
- 6) Remove the supernatant. Wash the pellet with ice cold 70 % EtOH (e.g. 1 ml).
- 7) Centrifuge for 10 min at < 13,000 rpm.
- 8) Remove the supernatant. Wash the pellet with ice cold 70 % EtOH (e.g. 1 ml).
- 9) Centrifuge for 10 min at  $\sim$  13,000 rpm.
- 10) Remove the supernatant carefully. Vacuum centrifuge your pellet(s).
- 11) Dissolve your dried pellet in e.g. (depending on size of pellet) 30 µl sterile MQ or some appropriate buffer.
- 12) Store samples at +4 °C for shorter periods, or at -20°C for longer periods.