Production of competent E-coli-cells

- Work always sterile and cold and speedy ©!
- All volumes deal with the common cellline!
- The cooling-centrifuge is in the tool shed (Geräteraum), cool down to 4°C early enough (Schalter hinten rechts), close the lid correctly!
- Prepare early enough min. 55 Eppis (1,5μl) (per cellline) and cool down to -80°C before using
- Use Milipore-filter for sterile CaCl₂, keep cool!
- prepare 15ml LB-Medium (or DYT) with the specific antibiotic (XL1-blue → Tet, BL21 → none!), inoculate and incubate over night
- prepare 200ml LB-Medium (or DYT) with the specific antibiotic, inoculate with 2ml of the over-night-culture. Nurture the culture until OD₆₀₀ at 0,35 (0,2-0,5) (at to high OD the cell won't be competent)
- keep cell suspension in sterile falcons (50ml) 20 min on ice, then centrifuge 20min; 4°C;
 2500g
- discard supernatant, carefully resuspend with 10ml CaCl₂-solution (put a little of the 10ml in every falcon), pool every resuspended aliquot of one cell line and add 40ml CaCl₂-solution (total volume 50ml). Keep 30 min on ice, then centrifuge 20min; 4°C; 2500g
- discard supernatant, carefully resuspend pellet in 5,5ml CaCl₂(80mM)/Glycerol (4:1), aliquot in Eppis á 100µl and store immediately at 80 °C

<u>CaCl₂-production</u>: mix 2,94g Calciumdichlorid (+ 2H₂O) with 250ml Milipore-water (in kitchen) → 80mM, filtrate with Milipore-filter in another 250ml-Schottbottle