Yeast Transformation with Lithiumacetat method:

1. Inoculate 15ml of YPD medium with S. cerevisiae (INV Sc1.) and shake over night at 30°C with 200 RPM

2.dertermine the oD_{600} of the o/n culture and dilute in on oD_{600} of 0,4 in 50ml YPD medium and let it grow for an additional 4h (9.40-13:40)

3-pellet at 2500g for 10 min at RT and resuspend in 40ml 1xTE-buffer

4.pellet at 2500g for 10 min at RT and resuspend in 2ml 1xLiAc/0,5xTE

5.incubate the cells for 10 min

6.transformation-mix: 100µl yeast suspension (from step 6)
+1-2µg plasmid DNA
+50 µl denatured single-stranden carrier DNA
(heat up for 60°C)

7.add 700µl 1xLiAc/40% PEG-3350/1xTE and mix well (vortex)

8.Incubate at 30°C for 30 min (water bath)

9.add 88µl 100% DMSO, mix well and heat shock at 42°C for 7 min (water bath)

10.centrifuge for 30 sec at 7000rpm and remove supernant and remove supernant

11.resuspend the cells with 1ml 1xTE

12.centrifuge for 30 sec and remove the supernant

13.resuspend the cells in 100µl 1xTE and plate on a selectable plate and incubate the plates at RT for 4 days