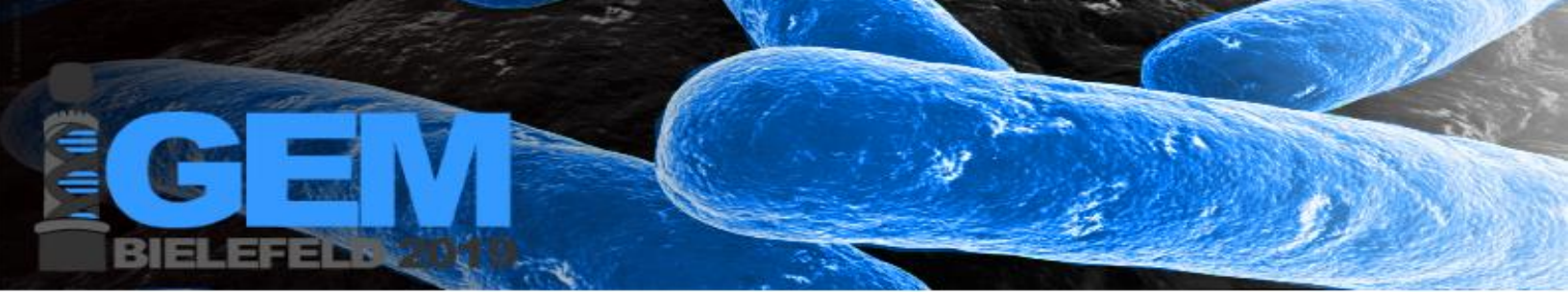

Transformation in *S. cerevisiae*

Works only for one plasmid transformation

- Inoculate an overnight culture of yeast strains in 10 ml YEPD and incubate at 30°C.
- Take 1.5 ml of the overnight culture and centrifuge at 4000 rpm for 3 minutes.
- Discard the supernatant and resuspend the cell pellet in 500 µl PLATE solution
- Add 2000 ng pDNA
- Incubate cells in water bath at 42°C for 30 minutes (for temperature-sensitive strains: 15 minutes incubation)
- Centrifuge at 5500 rpm for 30 s.
- Resuspend cells in 300 µl SOS medium (prepare the SOS medium shortly before use).
- Incubate cells in water bath at 30°C for 30 minutes.
- Plate cells into SD selection plate.
- Incubate the plates for a few days at 30°C (for temperature-sensitive strains: 24°C)

SOS medium:

- 500 µl YEPD
- 500 µl 2 M Sorbitol
- 6.5 µl 1 M $CaCl_2$

For 1 ml

PLATE:

- 20 g PEG 1500
- 0.788 g $CHC_3OOLi\ 2\ H_2O$
- 0.06057 g Tris
- 0.005 g EDTA

For 50 ml

YP medium:

- 10 g/l yeast extract
- 20 g/l pepton
- 20 g/l glucose

SD-minimal medium:

- 900 ml LB
- 100 ml C-source
- 5 ml of each amino acid

For 1 L

From: iGEM Bielefeld-CeBiTec

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