

Yeast FACS Prep

DAY ONE

- 1) *Use hemocytometer to determine volume of original solution required to obtain $\sim 1 \times 10^7$. . . add dH₂O to final volume 1 mL*
I just use 200 μ L culture into 800 μ L dH₂O
- 2) Pellet (2500 rpm, 3 minutes) and resuspend in 1 mL of cold 70% ethanol
- 3) Fix at least 60 minutes at room temperature or several days at 4°C

DAY TWO

- 4) Pellet (2500 rpm, 3 minutes)
- 5) Add 1 mL sodium citrate, 50 mM pH 7
- 6) Pellet (2500 rpm, 3 minutes) and resuspend in sodium citrate.
- 7) *Sonicate for 10-15 seconds at 30% -> this step isn't necessary*
- 8) *Pellet, resuspend in sodium citrate -> if didn't sonicate, unnecessary*
- 9) Add RNase A to 0.25 mg/mL (25 μ L of 10mg/mL solution).
Incubate overnight at 37°C.

DAY THREE

- 10) Pellet and resuspend twice (to wash off RNase)
- 11) Resuspend in 970 μ L sodium citrate and 30 μ L of 50 μ M sytox green dye. Wrap the rack in aluminum foil and keep at room temperature overnight (on the bench)

DAY FOUR

- 13) *Sonicate at lowest setting for 15 seconds immediately before FACS analysis -> also unnecessary, the analysis program Flow-Jo corrects for doublets*

Italics : things that can be done if problems arise

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