







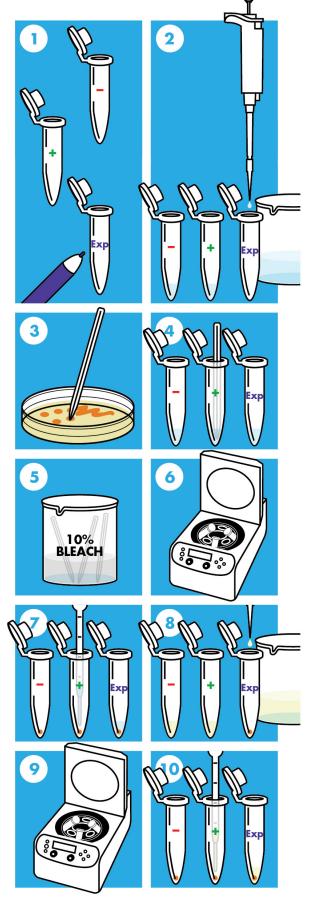


IN ADVANCE

Restreak yeast for single colonies **

DAY OF LAB

- Label 3 microfuge tubes (-), (+), and Exp.
- Add 500 µl of sterile water into each labelled tube.
- Using a sterile pipet tip, toothpick or inoculating loop, scrape a large colony of yeast off the petri dish.
- Swirl the colony into the tube labeled (-) and repeat for the other tubes, using a new colony each time.
- Discard the toothpicks into a beaker of 10% bleach.
- Balance the tubes in the microfuge and spin for 30 seconds at full speed ($\sim 14,000 \text{ rpm}$).
- Remove as much of the supernatant as you can using a pipet. Change pipet tips between microfuge tubes. Discard supernatant into 10% bleach solution.
- Add 500 µl of wash solution to each microfuge tube. Pipet up and down to resuspend the cells. Change pipet tips between tubes.
- Balance the tubes in the microfuge and spin for 30 seconds at full speed ($\sim 14,000 \text{ rpm}$).
- 10. Remove as much of the supernatant as you can using a pipet. Change pipet tips between microfuge tubes. Discard supernatant into 10% bleach solution.







- 11. Add 50 µl of competent solution to each tube. Pipet up and down to resuspend the cells. Change pipet tips between tubes.
- 12. Add 5 μl of sterile water to the tube labelled (-). This is your negative control. Add 5 μl of pRS414 DNA to the tube labelled (+). This is your positive control. Add 5 μl of pRS414+crtYB' DNA to the tube labelled **Exp**. Flick all tubes to mix contents.
- 13. Add 500 µl of transformation solution to each microfuge tube. Solution will be goopy. Pipet up and down to mix, changing tips between tubes.
- 14. Incubate tubes at 30° Celcius (C) for one hour along with 3 SC-trp petri dishes with lids slightly ajar to evaporate the moisture from the media surface. Periodically flick the tubes to mix during the incbation.
- 15. Label the media-side of the petri dishes as (-), (+) or Exp.
- 16. Pipet 250 µl of each sample onto the media of the appropriate petri dish. Spread the sample evenly across the dish with a sterile spreader.** Discard spreader and remainder of transformation mix in 10% bleach solution.
- 17. Incubate petri dishes, media side up, for 2 days at 30°C.

After the petri dishes have incubated for 2 days, count the colonies of each color in every dish.

