Freezer Stocks

Version 1.4

Gleb Ebert

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Glycerol Stocks

- 1. Grow single clone / population in MSW+D-Gluc. for ~2 days
- 2. Prepare two replicate stocks (one working and one backup stock) using one of the following recipes (all result in final glycerol concentrations of about 20%; the choice comes down to personal preferences):
 - Add 500 uL glycerol 60% and 1000 uL liquid culture to cryotubes
 - Add 300 uL glycerol 80% using a multipipette with the 10 mL tip (one full tip is enough for 33 cryotubes) and 1000 uL liquid culture to cryotubes
- 3. Mix stocks well by vortexing and inverting just before freezing at -80°C
- 4. Add new boxes to spreadsheet on freezer door and keep track which stocks are where

Growing up strains from glycerol stocks

Sometimes strains have a hard time growing after being frozen for too long. When trying to grow up such a "difficult" strain from freezer stocks, consider the following protocol, especially for high temperature adapted strains.

- 1. Prepare MB agar and pour 20 mL plates
- 2. Streak out freezer stocks onto MB plates and incubate at 15°C or 28°C (the latter for high temperature adapted strains) for 1-2 days.
- 3. Pick three colonies per strain and inoculate 2 mL MSW+D-Gluc. with it. Incubate at a temperature closer to the highest one the strain is adapted to (e.g. 27° C or 28° C when working with a strain adapted to 30° C) for ~ 2 days.
- 4. Use strains as usual, for example to make copies of the stocks