Fast genomic DNA extraction from *A. niger*

Introduction

Purpose to extract genomic DNA from cells of *A. niger*.

Materials

- 5M NaCl
- 400 µL EtOH 96% (ice-cold)
- Lysis Buffer
  - 3.75 mL Buffer A
  - 3.75 mL Buffer B
  - 1.5 mL 5% Sarkosyl
  - 1 mL 1% PVP
- Breaking Buffer + Lithium Acetate
  - 2% trition x-100
  - 1% SDS
  - 100mM NaCl
  - 10mM TrisHCL
  - 1mM EDTA
  - 200mM LiAc
- Glass beads

Procedure

1. Mix the following in a FastPrep tube: scrape from plate colony + 500 µL Lysis buffer (or breaking buffer + LiAc) + 200 µL of small glass beads.
2. Place the tube in the FastPrep machine at speed 4 for 40 seconds.
3. Spin down in table-top centrifuge and transfer 150 µL of the supernatant to a new tube.
4. Add 15 µL of 5M NaCl and 400 µL ice-cold EtOH 96% and vortex.
5. Spin 3 minutes at 10,000 g.
6. Remove supernatant.
7. Dry tubes on heating block (50°C).
8. Add 200 µL water and vortex.
9. Optional: Spin down and transfer 150 µl to a new tube (can give a cleaner solution).