

2 - Using the Avanti Centrifuge

Introduction

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Demonstrator: Maike showed Noah and Zoe F.

Edit Log:

Noah 13/09 - Created file and wrote protocol

Noah 15/9 - Printed

Materials

- › [Avanti centrifuge](#) - Make sure you book it in advance!
- › [Avanti centrifuge rotor](#) - JLA 8.1 for Large Buckets and JA20 for Little Ones
- › Right-sized centrifuging buckets from Maike's stash by the sink
 - › [Big ones](#)
 - › [Little Ones](#) - Here shown with lids but they will be at the top of the rack by the sink

Procedure

Fill Buckets

1. Get the right-sized bucket and lid for your sample, see above
2. Make sure that it has two rubber seals in the lid
3. Balance your sample against water - Make sure there's no ice on the tubes

If using the big one you can just zero the cell one and then add or take away water from the balance one with the lid beside it

If you're using a little bucket you can balance it by zeroing with the cell one standing up in a beaker and then that allows you to have the balance one standing up so you can add and take away water easily

Add rotor into centrifuge

4. Take the rotor trolley out of the cold room and then remove the rotor and put it into the centrifuge.

Make sure that one of the nubs on the inside of the rotor ends up between the two nubs on the centrifuge

Do this all carefully so as to not damage the rotor

5. Add your tubes (obviously opposite)

Make sure the lids are on tightly!

6. Put the top of the rotor on and screw until fairly but not outrageously tight

If it's hard to do this then the lid probably isn't on straight

The edge of the lid should then be pretty flush with the bottom of the rotor

7. Shut the lid by applying pressure in the bit where the two clips are

8. If you're centrifuging for longer than 10 minutes you'll want to return the trolley to the cold room so the rotors left don't warm up

Run centrifuge

9. Set the setting at the top, including which rotor you've put in

10. Press start

Back to how it was

11. Open the lid by pressing the pedal at the bottom

12. Unscrew lid of rotor and place back on trolley

13. Take your buckets out

14. Take out the rotor carefully

15. Check rotor for any mess

Clean up with ethanol or something if it is

16. Have a great time with your pellet :D