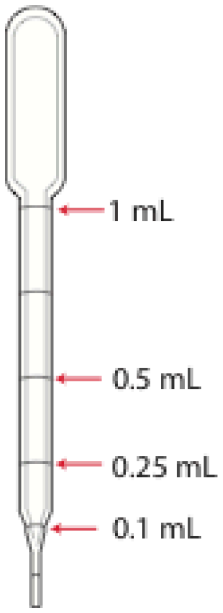
Fluorescent Protein Purification

Please follow these guidelines to ensure best results:

1. Store lysozyme, nickel beads and plates in the refrigerator

Things to watch during protocol:

2. Steps 2 - 4 – Remind students not to gouge agar – they will have problems with the pellet and they will clog their column.
3. Steps 6 – 8 – cutting time off of these steps can lead to inability to pellet or less purified protein
4. Step 9 – Students should remove liquid without disturbing pellet
    a. If student accidently re-suspends pellet, or pellet is not forming – spin longer
    b. If the pellet is not completely formed, one option is to use the pipette to take out the solid material leaving the liquid. ** this gooey mass can clog the column**
5. **TIP: If using black lights, really great visual to turn off lights after step 10 and have students watch the FP's flow through the column.**



Time Saving Tips if you have shorter class times!

1. You can choose to freeze overnight in the freezer rather than the dry ice freeze and split the protocol into two days.
2. Another place to save time is during the lysozyme, dry ice freeze and spinning – you can cut each step by a couple minutes **this will decrease your yield and possibly cause some groups to have trouble with their pellets**
3. Have student leaders assemble lab station materials into ziplock baggies or containers

though if time, this is something that is great for the students to put together themselves