

SOP-P055

Preparation of Heart Blood Plasma-DiO rats SPARC–Bob Phillips Rats

Objective: To collect plasma from live rat experiments for storage at -20°C for further hormone assays.

Note: DIO = Diabetic Induced Obesity

Items to take over to Pierce Hall:

1. Inhibitor cocktail for 6 rats
 - a. DPPIV – 360µl
 - b. Protease inhibitor cocktail 50x – 720µl
 - c. Aprotinin – 1.8ml
 - d. Pefabloc – 360µl
 - e. Mix above in purple top (EDTA) blood collection tube, 7ml size
2. One 6ml pipet for each rat, which has been coated with Heparin (10,000 IU)
3. An extra needle cap
4. 19 gauge needle for each syringe
5. strip tubes and labels (BP H—xxxxx)
6. Freezer racks

Procedure: at Pierce Hall, room xxxxxxxx

1. Turn on the Hettich centrifuge so it can begin to cool down.
2. Add 15µl of inhibitor to each of 5 tubes for the Culex and firmly place cap making sure it is on good and level.
3. Place the plastic numbers 1-5 one on each Culex tube, place up from bottom of tube.
4. Place the Culex tubes on the Culex machine in slots 1-5.
5. Put the labels on the strip tubes if they are not already.
6. When the first sample comes off the Culex, centrifuge on program #3 (4°C, 10 minutes, 3,000rpm).
7. Using the P200 set at 85µl carefully try to remove as much of the plasma as possible and transfer to the appropriate strip tube.
8. If needed switch to the P100 set to 15µl and remove remaining plasma without disturbing the red cell layer.
9. Keep the strip tubes in the freezer block during the entire collection process.
10. Do this for each sample as it comes off the Culex machine, S1, S2, S3, S4, S5.
11. Place an orange dot on the label on top of all the tubes that have been collected using the orange sharpie. This just indicates the original tube from which the aliquots were taken.
12. Once the fifth sample has been collected, change the rotor on the Hettich centrifuge to the one for strip tubes.
13. Change the program to program #2, which is 6,000 rpm, 10 minutes, 4°C.
14. You will need to close the lid and press start and wait. It will recognize the rotor has been changed and will automatically STOP.

15. Once it is stopped open the lid again. Then close the lid and press START. It should now run through the program..
16. When stopped, remove the strip tube and place it on the Jennie special made holder.
17. Using the P200 set to 50µl and the P100 set to 21µl, aliquot a 50µl and 21µl aliquot for every sample. Do the 50µl first. If the 21µl aliquot is short, write an “S” on the cap of that aliquot.
18. Once all samples have been aliquoted, spin them again on program #2 to get all the sample to the bottom.
19. Make sure all lids are on tight, and place samples in -20°C freezer.

Created by: Kathy Ragheb

Verified by: _____ **Date:** _____

Print Name

Sign Name