Laboratory Diagnostics Core
NE6-217
X51900, x45447

MOUSE CBC/DIFF PROTOCOL

Sample collection

1. Prior to sample collection contact the lab at x51900 to confirm availability of the Advia (our hematology analyzer)
2. A 0.6mL snap cap aliquot tube is ideal for our purposes. It must be a small volume conical tube in order to utilize the entire sample.
3. Add 10µL of 0.1M EDTA (18.6g EDTA to 500mL dd water) for each 100µL of whole blood.
4. If you are collecting blood from a heart puncture, coat the syringe that you are collecting the whole blood in with the EDTA.
5. If you are collecting with a capillary be sure it has an EDTA coating.
6. Add directly to the aliquot tube that has the EDTA in it. You can start with a smaller amount of EDTA and when you know the blood volume of your collection you can add more to make it 10µL EDTA per every 100µL whole blood. Immediately **MIX WELL***
7. If you don't have enough volume and you need to dilute your whole blood to get enough volume, dilute in 3% BSA (bovine serum albumin) in PBS prior to analyzing. Mix well.
    a. Examples:
        i. x4 dilution 88µL of EDTA blood to 264µL diluent
        ii. x8 dilution 44µL of EDTA blood to 308µL diluent
        iii. x10 dilution 35µL of EDTA blood to 315µL diluent
8. The Advia needs 200µL for one analysis, 400µL of sample will allow for a repeat if needed.
9. Samples should be run within one hour of collection or refrigerated for up to 8 hours.
10. The Advia does not account for your dilution. You will make your calculations.
11. Hours of operation: 7:30am-3:30pm, Monday thru Friday.
12. $15.00 per sample.
13. Please bring the activity number that you would like billed.

*The most common problem is sample forming small clots before mixing. Your sample can not be evaluated if this happens. You must mix well immediately.

April 24, 2014
bls