

The DLAM pharmacy does not normally keep PMSG and hCG stocked. However, I have aliquots (each aliquot is enough for 10 mice) of PMSG and hCG that I can bring over from the rederivation lab. I just need to know a couple days in advance so I can make sure that I have enough available and to make the necessary arrangements to have it brought over. The PMSG is \$6.14 and the hCG is \$1.78 per aliquot.

Each aliquot is prepared following the instructions below:

HCG (Human Chorionic Gonadotropin): Powder form contains 2,500 I.U. Prepare a 500 I.U. stock by thoroughly suspending the hormone in 5ml of 0.9 % NaCl. Dispense in 100-uL aliquots and store at -20oC no longer than 6 months. Prior to injecting the mice dilute the stock solution with 900uL of 0.9 % NaCl for a final concentration of 50 I.U. /ml. Inject each mouse with 5 I.U. (0.1ml) IP.

PMSG (Pregnant Mare Serum Gonadotropin): Powder form contains 1,000 I.U. Prepare a 50 I.U. stock by thoroughly suspending the hormone in 20ml 0.9 % NaCl. Dispense in 1 ml aliquots and store at -20oC no longer than 6 months. Inject each mouse with 5 I.U. (0.1 ml) IP.

Once the hormones are thawed it is best to discard the unused portion. So if you are planning on injecting fewer mice you may need to adjust this and make smaller aliquots if you want to order them yourself.

I inject my mice usually between 12:00 and 2:00 PM with PMSG on day 1 and follow-up with the hCG between 46 and 52 hours later. I think the most critical thing to consider when superovulating mice is the age of the female and the strain. Different strains respond best within certain age ranges. You can find information on the ranges Lee Silver's Mouse Genetics which you can find on the Jackson Laboratory Website.

Please feel free to contact me if you have any further questions.

Best Regards,
Michelle

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