

LAB 11 – TASKS...

- × 1 Rx for rectal suppositories
 - + See Pharmaceutics II course packet p. 116
- × 2 preps & 1 prep-like activity
 - + No electronic balances for this lab ☹
- × 2 OTC assignments
 - + Please help your TA remember to give you two scenarios in Lab 10

PREP #26 – ANALGESIC OINTMENT

- × Example method of preparation:
 1. Dissolve peppermint camphor in sweet birch oil
 2. Incorporate liquid into vaseline
 - × In mortar & pestle or on pill tile

PREP #26 – ANALGESIC OINTMENT

- × Packaging = 1-oz. plastic ointment tube
 - + Fill as a metal tube but use a heat sealer for the end of the tube
 - + Seal area must be clean/free from ointment
- × Storage = Room temperature
- × Expiration date = 1 year
- × Label as “Analgesic ointment”
- × Look up “official” names

PREP #27 – ZINC SULFATE EYE DROPS

- × Example method of preparation:
 1. Dissolve zinc sulfate and boric acid in bacteriostatic water for injection
 - × Bacteriostatic water for injection will be pulled up from a vial using a 60-mL syringe and needle
 2. Once the mixture has completely dissolved, draw up into a 60-mL syringe
 3. Expel contents through a syringe filter into container

PREP #27 – ZINC SULFATE EYE DROPS

- × Compounding tips...
 - + A demonstration of the preparation method will be given in lab
 - + Calculate amount of boric acid needed to make an isotonic solution
 - × See *Pharmaceutical Calculations* chapter 11
 - + Zinc sulfate is the heptahydrate form, so you'll need to calculate the amount used to produce the correct amount of zinc sulfate
 - × Hint: this will avoid an aliquot calculation 😊

PREP #27 – ZINC SULFATE EYE DROPS

- × Compounding tips continued...
 - + This is a “sterile” product that should be prepared aseptically in a laminar flow hood, but we’ll pretend...
 - + Add 99¢ to price for bacteriostatic water

PREP #27 – ZINC SULFATE EYE DROPS

- × Packaging = 1-oz. “droptainer”
- × Storage = Room temperature
- × Expiration date = 2 months
- × Label as “Zinc sulfate ophth soln ____%” with correct quantity

PREP #28 – OINTMENT BASE COMPARISON

- ✘ Groups will be assigned to prepare a total of 10 ointment samples for comparison
 1. Mix 2 mL of an oil-soluble dye solution and 2 mL of a water-soluble dye solution separately into 10 g each of the following bases:
 - A. Petrolatum
 - B. Eucerin (commercial ointment base)
 - C. Aquaphor (commercial ointment base)
 - D. Polyethylene glycol ointment (commercial or compounded ointment base)
 - E. Hydrophilic ointment (prepared in lab 10)
 - ✘ Choose from someone in the group who got a good grade on this one!
- + Cooperate to determine who will prepare each ointment (each student should prepare 2 or 3)

PREP #28 – OINTMENT BASE COMPARISON

2. Leave the mixtures on a large weighing paper. Label each mixture and allow to stand overnight.
 - + Write ointment base on the weighing paper, water and oil soluble dyes will be different colors
 - + Leave mixtures on the counter in your pharmacy

PREP #28 – OINTMENT BASE COMPARISON

3. Check the mixtures the next day for phase separation, uniformity, color change, etc. and complete the chart
 - + Ointment base classifications will be discussed in Pharmaceutics 2
 - + Return during prep time
 - + Turn in one chart per group to the TA
 - × Everyone in the group gets the same grade
 - × Everyone in the group must participate!
 - * If you don't participate, you will receive a zero for this preparation
 - + Discard ointments and clean up your mess