

Lab 9 – Tasks...

- ◎ 2 Rx
 - 1 Rx for an ophthalmic solution or suspension
 - See Pharmaceutics II course packet p. 101
 - 1 Rx for an ophthalmic ointment
 - See Pharmaceutics II course packet p. 102
- ◎ 3 preps
- ◎ 1 OTC

Prep #20 – PLO gel

- Method of preparation:
 1. Measure lecithin solution in 5-mL syringe and pluronic gel in 30-mL syringe
 2. Attach red luer/luer connector to both syringes
 3. Push lecithin solution into 30-mL syringe with pluronic gel
 4. Remove empty 5-mL syringe and replace with 30-mL syringe
 5. Mix by transferring back and forth between syringes
 6. Push all contents into one 30-mL syringe
 7. Remove syringe and connector
 8. Replace with blue luer/oral connector
 9. Fill five 1-mL oral/topical syringes and cap each syringe

Prep #20 – PLO gel

- Tips/Helpful hints:
 - Don't remove pluronic gel from refrigerator until ready to use
 - Viscosity will increase with temperature
 - Assume sp.g. = 1 for price calculations
 - Place all used syringes in a sharps container, not in the trash!

Prep #20 – PLO gel

- Misc.
 - Gel is used commonly for transdermal delivery
 - Lecithin increases skin permeability and pluronic increases diffusion rate of drug from the gel
 - Oil-soluble drug would be added to lecithin/isopropyl palmitate or water-soluble drug would be added to pluronic gel
- Packaging = 1-mL syringes in ziplock bag
- Storage = Refrigerator
- Expiration date = 6 months
- Keep the compounding worksheet for your competency notebook!

Ointment preparations...

- ① Uniformity of mixture is extremely important
- ① Mixture should be nongritty
- ① Filling ointment jars and tubes will be demonstrated in lab

Prep #21 – Zinc Oxide Paste USP

- ① Method of preparation can be found in Remington's or USP
- ① Stock mixture for later use
- ① Compounding tips
 - Large amounts of zinc oxide and starch mixed into a small amount of petrolatum
 - Requires “muscle power”!
 - Nongritty is critical

Prep #21 – Zinc Oxide Paste USP

- ⦿ Packaging = 1-oz. ointment jar
- ⦿ Storage = Room temperature

Prep #22 – TMC/LCD ointment

- Method of preparation using plastic bag method for preparing ointments
 - Place Aquaphor in bag first
 - Add LCD and TMC and mix
- Compounding tips
 - TMC is supplied as a 40-mg/mL injection
 - Use a syringe to draw up required amount
 - Assume weight is negligible when calculating amount of Aquaphor to use
 - LCD contains coal tar
 - Messy and will stain clothing
 - Weigh in a beaker on the electronic balance
 - Aquaphor is a commercial ointment base
 - Look up ingredients in *Physician's Desk Reference*

Prep #22 – TMC/LCD ointment

- ⦿ Packaging = 1-oz. ointment jar
- ⦿ Storage = Room temperature
- ⦿ Expiration date = 1 year
- ⦿ Label as “TMC ____%/LCD ____% in Aquaphor”
 - Look up what acronyms “TMC” and “LCD” represent