Name: _____ Date: _____

Lab Day: Mon Tues Wed Thurs Friday Time: AM PM

Compounded Non-Sterile Preparation - Suspension

Required Pre-Lab Preparation

- Review this packet Dry Lab and Wet Lab Prescriptions/Calculations/Procedures
- PSK Lab Website Compounding Area
  - Compounding Lectures and Procedure Videos
    - Suspensions In-Class Procedure video
    - Suspensions Lecture podcast
  - Practice Compounding Prescriptions
    - Diltiazem 10 mg/mL Oral Suspension
  - Complete Errors and Omissions Practice Prescription

INSTRUCTIONS

Prepare the attached wet lab compound prescriptions as outlined in the compounding procedure. Show all necessary calculations and document in detail all required information requested in the compounding record. Upon completion of the compound, generate a prescription label including any pertinent and necessary auxiliary labels. Once completed

1. Thoroughly clean your compounding equipment.
2. Return your cleaned equipment to its proper storage location.
3. Clean the surface of your work station thoroughly.
4. Place your completed lab packet along with your product at your work station.
5. Complete the error and omission prescription.
6. Summon an instructor for final check out.

Please note: Check out will not be performed until your equipment and work station have been thoroughly cleaned and equipment returned to its proper storage location.

LABORATORY SAFETY NOTICE PLEASE READ

1. In the compounding lab various active bulk pharmaceuticals, chemicals and commercial legend pharmaceuticals will be used during each compounding procedure. Should you have or suspect a sensitivity and/or allergy to any of the products being used as part of a particular procedure, including but not limited to sulfur, penicillin, topical anesthetics, etc., do not begin the procedure and notify an instructor.
2. Lab jackets and gloves must be worn at all times while in the compounding lab. Protective eyewear is available for use.
3. Some bulk pharmaceuticals and chemicals that exist as fine powders are easily aerosolized when opened. Use caution against inadvertent inhalation of these types of products. Filter masks are available for your use when working with these types of products.
4. Some compounding procedures require the use of a hot plate to heat certain components. Take your time and use extreme caution when working with heat to minimize the possibility of accidental burns.
5. All compounded products must remain in the compounding laboratory for proper destruction and disposal by an instructor.

Compounded Non-Sterile Preparation - Suspension

QA and Check-Out Form

Compound #1 Dry Lab - Bethanechol Oral Suspension (Excess Method)

_____ Completed all dry lab calculations, procedure and compounding record documentation

Compound #2 Wet Lab - Allopurinol and Hydrochlorothiazide Oral Suspension (Exact Method)

_____ Calculations

- Accurate, all requested information completed, all work shown

_____ Compounding Record/Documentation

- Requested documentation and procedural information completed in its entirety
- Correct beyond-use date (non-preserved = 14 days or preserved = 35 days)
- Correct storage requirements (refrigerate)

_____ Label Drug Name and Auxiliary Labels

- Complete, accurate and appropriate
- MUST include Shake Well, and Refrigerate

_____ Final Product/Quality Control

- Small particle size with uniform dispersion
- Free of clumps indicative of adequate trituration and wetting
- Adequate viscosity evidenced by slow sedimentation rate
- Redisperses easily with shaking
- Aesthetic, characteristic appearance based on vehicle used
- Correct final concentration based on calculations and procedure

Compound #3 Errors and Omissions Prescription Compound

_____ Corrected all calculation, procedure, documentation and label errors/omissions

Total Points = _____

Instructor comments:

Date: X/XX/XXXX Patient Name: Tim Mott R_X Bethanechol 7.5 mg/5 mL M and Ft. suspension Dispense 80 mL SIG: i tsp po tid Refills: 4 Dr. Harold Green	**Suspension Rx - Dry** Additional Information: • Use the Digital Balance • Least Weighable Quantity = 40 mg • Use **Excess Method** of suspension compounding – Calculate for and prepare excess. Dispense the prescribed volume – Select a volume that allows you to use the contents of an entire capsule thus eliminating the need for weighing the capsule powder • Source of active drug = bethanechol 50 mg capsules

Formulation Record

Ingredient Identities & Amounts

Ingredient	Dose/Amt.	Activity	Purpose
Bethanechol	7.5 mg/5 mL	cholinergic mimetic	active
Ora-Blend	q.s.	suspending/flavoring	vehicle

Compounding Calculations:

1. Total weight of Bethanechol required for Rx as prescribed = _____ mg

2. Total volume to be prepared using excess method = _____ mL

3. Required # of Bethanechol 50 mg capsules = _____ capsules

4. Required volume of Ora-Blend (combination suspending/flavoring agent) = _____ mL

Compounding Record

Ingredient	Mft./Lot #	Exp Date	Target Amt	Actual Amt
Bethanechol 50 mg capsule	UDL/752531	8/2022		
Ora-Blend	Paddock/J210983	6/2022		

QA Documentation

Product Weights(s) or Volume:

Visual Inspection & Testing:

Formulation Record #:
MFR-308439

Compounding Record #:
CMPD-983917

Date & Time Prepared:

Beyond-use Date:

Reference Source for BUD:
USP 795

Container-Closure System:

Storage Requirements:

Final Product Name, Strength, and Dosage Form:

Auxiliary Label(s):

Required Equipment & Procedure (step-by-step):

REQUIRED EQUIPMENT - mortar, pestle, 4 ounce conical, small metal spatula, rubber spatula, small/medium/large weigh boats, 4 ounce amber prescription bottle with child-proof cap

1. Open the required number of bethanechol 50 mg capsules and place the capsule powder into a large mortar. ***There is no need for further trituration as the powder is already fine.***
2. Measure the required volume of Ora-Blend in a 4 ounce graduated conical.
3. Wet the capsule powder using small amounts of Ora-Blend, triturating until a smooth paste is formed.
4. Geometrically add the remaining Ora-Blend into the mortar. Triturate until uniform after each addition of Ora-Blend.
5. Transfer volume to dispense (80 mL) to a 4 ounce amber dispensing bottle.
6. Cap bottle and shake vigorously.
7. Appropriately discard any excess product.
8. Label and Dispense.

Compounding Personnel Signature(s):

Date: X/XX/XXXX Patient Name: Donald Wright R_X Allopurinol 180 mg/5 mL Hydrochlorothiazide 12.5 mg/5 mL M and Ft. Suspension Dispense 60 mL SIG: i tsp po qd Refills: 1 Dr. James Warren	**Suspension Rx - Wet** Additional Information: • Use the Digital Balance • Least Weighable Quantity = 40 mg • Use **Exact Method** of suspension compounding – Do not calculate for excess volume – Prepare and dispense the prescribed volume

Formulation Record

Ingredient Identities & Amounts

Ingredient	Dose/Amt.	Activity	Purpose
Allopurinol	180 mg/5 mL	antiuricemia	active
Hydrochorothiazide	12.5 mg/5 mL	antihypertensive	active
Ora-Plus	q.s.	suspending agent	vehicle
Ora-Sweet	q.s.	flavoring agent	vehicle

Compounding Calculations:

1. Required amount of Allopurinol = _____

2. Number of 300 mg Allopurinol tablets needed = _____

3. Weight of required number of Allopurinol 300 mg tablets = _____

4. Weight of Crushed Tablet Powder (CTP) needed to provide the required amount of Allopurinol = _____

---

5. Required amount of Hydrochlorothiazide = _____

6. Number of 50 mg HCTZ capsules needed to provide the required amount of HCTZ = _____

7. Required volume of commercial suspending agent (based on manufacturers guidelines) = _____

8. Required volume of commercial flavoring vehicle (based on manufacturers guidelines) = _____

Compounding Record

Ingredient	Mft./Lot #	Exp Date	Target Amt	Actual Amt

QA Documentation

Product Weights(s) or Volume:

Visual Inspection & Testing:

Formulation Record #:
MFR-793503

Compounding Record #:
CMPD-987839

Date & Time Prepared:

Beyond-use Date:

Reference Source for BUD:
USP 795

Container-Closure System:

Storage Requirements:

Final Product Name, Strength, and Dosage Form:

Auxiliary Label(s):

Required Equipment & Procedure (step-by-step):

REQUIRED EQUIPMENT - mortar, pestle, 2 or 4 ounce graduated conical, small metal spatula, rubber spatula, small and mediumweigh boats, 4 ounce amber prescription bottle with child-proof cap

1. Place the required number of allopurinol 300mg tablets into a mortar and triturate into a very fine powder.
2. Weigh the required amount of allopurinol tablet powder. Appropriately dispose of the excess powder.
3. Open the required number of hydrochlorothiazide 50 mg capsules and place the capsule powder in the mortar.
4. Geometrically add the allopurinol crushed tablet powder to the mortar and triturate after each addition until uniform.
5. Measure the required amount of Ora-Plus (suspending agent) in a 2 ounce graduated conical.
6. Wet the crushed tablet powder in the mortar using small amounts of Ora-Plus, triturating until a smooth paste is formed. Geometrically add the remaining Ora-Plus. Triturate after each addition until uniform.
7. Pour the contents of the mortar into the 4 ounce oval prescription bottle.
8. Measure the required amount of Ora-Sweet (flavoring agent) in a 2 ounce graduated conical.
9. Rinse out the drug remaining in the mortar by adding approximately 5 mL of Ora-Sweet to the mortar and pour the rinsing into the 4 ounce oval prescription bottle. Repeat the rinsing process until the drug is removed from the mortar. ***Rinse at least 2 or 3 times***
10. Check the prescription bottle and q.s. to 60 mL with Ora-Sweet. Cap bottle and shake vigorously.
11. Label and Dispense.

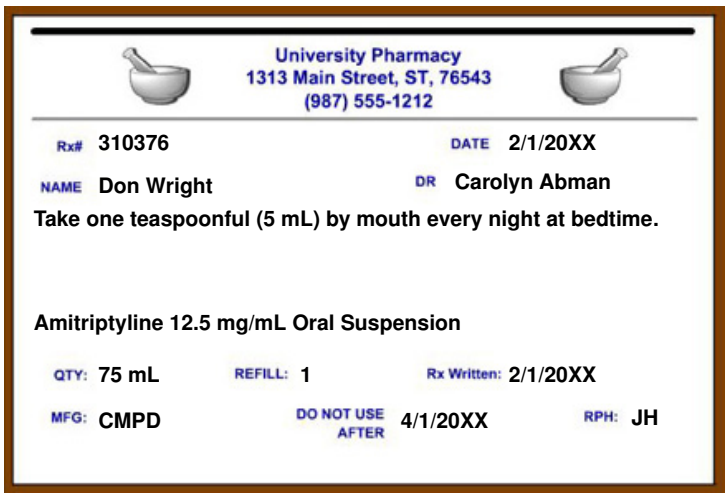
Compounding Personnel Signature(s):

Date: 2/1/20XX Patient Name: Ron Wright R_X Amitriptyline 12.5 mg/mL M and Ft. Suspension Dispense 75 mL SIG: 5 mL po qHS Refills: 1 Dr. Carolyn Abman	**Suspension EO-RX Practice** Additional Information: • Use the Digital Balance • Least Weighable Quantity = 40 mg • Prepare an **EXCESS** volume. – Use a volume that allows you to use an even number of tablets. – Dispense the prescribed volume. • Source of active drug is amitriptyline 25 mg tablets • Prescription bottles (amber) available: 2, 3, 4, 6, 8, and 12 ounce size

Formulation Record

Ingredient Identities & Amounts

Ingredient	Dose/Amt.	Activity	Purpose
Amitriptyline	12.5 mg/mL	antidepressant	active
Ora-Plus	q.s.	suspending agent	vehicle
Ora-Sweet	q.s.	flavoring agent	vehicle



Compounding Record

Ingredient	Mft./Lot #	Exp Date	Target Amt	Actual Amt
Amtriptyline 25 mg tablets	Rugby/7623590	15 months	5 tabs	5 tabs
Ora-Plus	Paddock/JJ612	8 months	50 mL	50 mL
Ora-Sweet	Paddock/J5638	2 months	50 mL	50 mL

QA Documentation

Product Weights(s) or Volume:

100 mL

Visual Inspection & Testing:

white suspension, medium viscosity, easily redispersed with shaking

Formulation Record #:
MFR-149231

Compounding Record #:
CMPD-310376

Date & Time Prepared:
2/1/20XX

Beyond-use Date:
4/1/20XX

Reference Source for BUD:
USP 795

Container-Closure System:
3 oz. prescription (amber) bottle

Storage Requirements:
Refrigerated

Final Product Name, Strength, and Dosage Form:
Amitriptyline 12.5 mg/mL Oral Suspension

Auxiliary Label(s):
See Labels Above

Required Equipment & Procedure (step-by-step):

REQUIRED EQUIPMENT -

1. Triturate required number of amitriptyline 25 mg tablets in a mortar to a very fine powder
2. Measure 50 mL of Ora-Plus.
3. Slowly wet the crushed tablet powder in the mortar using small amounts of Ora-Plus.
4. Geometrically add the remaining Ora-Plus. Triturate until uniform after each addition.
5. Transfer the mixture to a 3 oz. prescription (amber) dispensing bottle.
6. Measure 50 mL of Ora-Sweet.
7. Rinse out the mortar using small amounts of Ora- Sweet. Pour each rinsing into the oval dispensing bottle.
8. Check the volume in the dispensing bottle and q.s. the suspension to final volume of 75 mL with Ora- Sweet.
9. Shake vigorously.
10. Label and Dispense.

Compounding Personnel Signature(s): ***Jaye Hawc, PharmD***