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Suggested Formula	Mupirocin 2% Nasal Ointment (Emulsion, 50 g)	FIN	F 006 938v2
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Mupirocin Calcium, USP	TBD					
Mineral Oil (Light), NF	5.0	mL				
Medisca OleaBase™ Plasticized	TBD					

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information	⊗					
Light sensitive (protect from light whenever possible): Mineral Oil						
Suggested Preparatory Guidelines	5 P					
Non-Sterile Preparat	ion Sterile Preparation					
Processing Error / Testing Considerations:	To account for processing error and sterility testing considerations during preparation, it is suggested to measure an additional 10 to 12% of the required quantities of ingredients.					
Special Instruction:	This formula must be prepared within the appropriate facilities under adequate environmental conditions, following the necessary guidelines and procedures as stated within <i>USP 797</i> . Only trained and qualified personnel must prepare this formula.					
	All heat stable, reusable materials and equipment must be sterilized and depyrogenated by dry heat sterilization at 250°C for 2 hours prior to use.					
	Every batch of final product compounded using this procedure must be sterility and endotoxin tested before being dispensed.					
	Protective apparel, such as a sterile gown, sterile gloves, shoe covers, head cap, eyewear and face-masks should always be worn. In addition, proper personnel cleansing must be done before entering the buffer or clean area.					
	Filter integrity must be validated by performing a filter stress test. If the test demonstrates that the filter might be defective, the solution must be discarded and remade.					
	This procedure requires the use of very small quantities of ingredients. All calculations and preparation techniques must be verified before dispensing the final product.					



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SUGGESTED PREPARATION (for 50 g)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*):	Processing Error	Qty. to measure
Mupirocin Calcium, USP	TBD				
Mineral Oil (Light), NF §	5.0	mL			
Medisca OleaBase TM Plasticized	TBD		©		

- Weigh / measure just prior to use.
- * Takes into account increased batch size conversions and density conversions, if required.

	<u>Preparatory Instruction</u>	2
IMPORTANT: All pro	eparatory procedures must be performed using	ng proper Aseptic Technique
Ingredient quantification:		
A. Determine the quantity (i size (50 g):	ng) of Mupirocin Calcium required to make a <u>I</u>	Mupirocin 2% Nasal Ointment, batcl
Quantity of Mupirocin re	quired for 50 g	1000 mg
DIVIDED BY		
Assay (base equivalent) of	on anhydrous basis result (from certificate of	
analysis: $\mu g/mg = mg/g$)		$\underline{\hspace{1cm}}$ μ g/mg
EQUALS		
i. Quantity of Mupiroc	in Calcium needed for 50 g	g
MULTIPLIED BY		
Processing error adjustme	ents (10 to 12%)	1.10 to 1.12
EQUALS		
ii. Quantity of Mupiroc	in Calcium needed plus processing error adju	ustments g



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Suggested FIN F 006 938v2 Mupirocin 2% Nasal Ointment (Emulsion, 50 g) Formula 2. **Ingredient quantification:** A. Determine the actual quantity of OleaBase™ Plasticized to weigh for the required batch size (50 g): Total Weight of the batch 50 g **MINUS** The amount of other ingredient except Mupirocin Calcium 4.245 g **MINUS** The weight of Mupirocin Calcium (Step 1Ai) **EQUALS** i. Quantity of OleaBaseTM Plasticized needed for 50 g **MULTIPLIED BY** Processing error adjustments (10 to 12%) 1.10 to 1.12 **EQUALS** ii. Weight of OleaBase™ Plasticized required plus processing error adjustments g 3. **Sterilization:** Following the manufacturer's specifications, autoclave sterilize the OleaBaseTM Plasticized (amount determined in Step 2Aii), then return to ambient temperature and pressure. **Specifications:** 121°C Heating temperature: Heating time: 30 minutes Pressure: 15 psi IMPORTANT: The temperature of the heated chamber must reach 121°C before the exposure duration is timed. 4. **Powder-liquid preparation:** A. Aseptically filter the Mineral Oil (Light) through a 0.22-µm sterile filter into Mupirocin Calcium (amount determined in Step 1Aii) and levigate the mixture into a homogeneous liquid-like dispersion.



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5. **Powder-liquid to medium integration:**

A. Incrementally add the homogeneous liquid-like dispersion (Step 4A) to the Sterilized OleaBaseTM Plasticized (Step 3).

Specifications: Continuously mix, using high-shear mixing techniques.

End result: Homogeneous ointment-like dispersion.

6. **Microbial Enumeration testing:**

Test the product for microbial count and specified microorganisms to meet the requirements for Mupirocin Nasal Ointment, in accordance to current USP <61> and <62> procedures.

7. **Product transfer:**

Transfer the final product into the specified dispensing container (see "Packaging requirements").

SUGGESTED PRESENTATION

DGGESTED FKI		MIAIION				
Estimated Beyond-Use Date		30 days, as per USP. Package Requirem			 Tightly closed, light-resistant ointment tube/jar. To be administered with a metered-dose measuring device. 	
	1	Use as directed. Do not exceed dose.	d prescribed	5	Protect from light.	
	2	Keep out of reach of children.		6	Cap tightly after use.	
Auxiliary Labels	3	Consult your health care practit other prescription or over medications are currently being prescribed for future use.	-the-counter	7	For nasal use only.	
4 Kee		Keep at room temperature (20°C	C – 23°C).			
Pharmacist Instructions	Add any auxiliary labels specific to the API to the dispensing container as deemed necessary					
Patient Instructions						



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REFERENCES

1.	Ophthalmic, Otic, and Nasal Preparations. In: Allen, LV, Jr. <i>The Art, Science and Technology of Pharmaceutical Compounding Fourth Edition</i> . American Pharmaceutical Association; 2012: 307.
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6.	USP <797>. <i>United States Pharmacopeia XXXIX / National Formulary 34</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2016: 626.

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