



Suggested Formula	Baclofen 2%, Cyclobenzaprine Hydrochloride 2%, Diclofenac Sodium 3%, Lidocaine Hydrochloride 2% Topical Cream (Emulsion, 50 g)	FIN	F 005 491
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Baclofen, USP	1.000	g				
Cyclobenzaprine Hydrochloride, USP	1.000	g				
Diclofenac Sodium, USP	1.500	g				
Lidocaine Hydrochloride, USP	TBD					
Pentylene Glycol	1.75	mL				
Medisca VersaPro™ Cream Base	TBD					

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Light sensitive (protect from light whenever possible):

Diclofenac Sodium

Hygroscopic (protect from moisture whenever possible):

Diclofenac Sodium, Pentylene Glycol

Narrow Therapeutic Index

Lidocaine Hydrochloride

Suggested Preparatory Guidelines

Non-Sterile Preparation Sterile Preparation

Processing Error /

Testing Considerations:

To account for processing error considerations during preparation, it is suggested to measure an additional **10 to 12%** of the required quantities of ingredients.

Special Instruction:

Protective apparel, such as a lab coat, disposable gloves, eyewear and face-masks should always be worn.

Lidocaine Hydrochloride has a Narrow Therapeutic Index.

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
Baclofen, USP	1.000	g			
Cyclobenzaprine Hydrochloride, USP	1.000	g			
Diclofenac Sodium, USP §	1.500	g			
Lidocaine Hydrochloride, USP	TBD				
Pentylene Glycol §	1.75	mL			
Medisca VersaPro™ Cream Base	TBD				

§ Weigh / measure just prior to use.

* Takes into account increased batch size conversions and density conversions, if required.

Preparatory Instruction

1. Ingredient quantification:

A. Determine the potency of Lidocaine Hydrochloride based on the certificate of analysis:

	100%
MINUS	
Water Content (from certificate of analysis)	_____ %
DIVIDED BY	100
EQUALS	
Quantity of water free Lidocaine Hydrochloride, in decimal	_____
MULTIPLY BY	
Assay on anhydrous basis result (from certificate of analysis)	_____ %
DIVIDED BY	100
EQUALS	
i. Potency of Lidocaine Hydrochloride, in decimal	_____



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2. **Ingredient quantification:**

A. Determine the quantity (in g) of Lidocaine Hydrochloride to make a Lidocaine Hydrochloride 2% Topical Cream, batch size (50 g):

Quantity of Lidocaine Hydrochloride required for 50 g	1.000 g
DIVIDED BY	
Potency of Lidocaine Hydrochloride (Step 1Ai)	_____
EQUALS	
i. Quantity of Lidocaine Hydrochloride needed for 50 g	_____ g
MULTIPLIED BY	
Processing error adjustments (10 to 12%):	1.10 to 1.12
EQUALS	
ii. Quantity of Lidocaine Hydrochloride needed <i>plus</i> processing error adjustments	_____ g



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3. **Ingredient quantification:**

A. Determine the actual quantity of VersaPro[™] Cream Base to weigh for the required batch size (50 g):

Total Weight of the batch	50.00 g
MINUS	
Total amount of other ingredients except Lidocaine Hydrochloride	5.20 g
MINUS	
The weight of Lidocaine Hydrochloride (Step 2Ai)	_____ g
EQUALS	
i. Quantity of VersaPro[™] Cream Base needed for 50 g	_____ g
MULTIPLIED BY	
Processing error adjustments (10 to 12%)	1.10 to 1.12
EQUALS	
ii. Weight of VersaPro[™] Cream Base required <i>plus</i> processing error adjustments	_____ g

4. **Powder-liquid preparation:**

A. Combine and triturate the following ingredients together to form a fine homogeneous powder blend:

- Baclofen
- Cyclobenzaprine Hydrochloride
- Diclofenac Sodium
- Lidocaine Hydrochloride (amount determined in Step 2Aii)

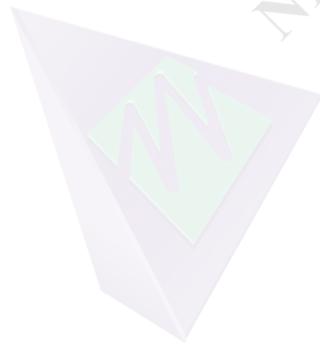
B. Levigate the fine, homogeneous powder blend (Step 4A) with the Pentylene Glycol.

End result: Homogeneous paste-like dispersion.



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5.	<p><u>Powder-liquid to medium integration:</u></p> <p>A. Incrementally add the homogeneous paste-like dispersion (Step 4B) to the VersaPro™ Cream Base (amount determined in Step 3Aii).</p> <p><u>Specifications:</u> Continuously mix, using high-shear mixing techniques.</p> <p><u>End result:</u> Homogeneous cream-like dispersion.</p> <p>B If the final result is gritty, pass it through the ointment mill until it becomes smooth and uniform.</p>
6.	<p><u>Product transfer:</u></p> <p>Transfer the final product into the specified dispensing container (see “Packaging requirements”).</p>





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SUGGESTED PRESENTATION

Estimated Beyond-Use Date	30 days, as per USP.	Packaging Requirements	Tightly closed, light-resistant container with metered dose-measuring device.	
Auxiliary Labels	1	Use as directed. Do not exceed prescribed dose.	6	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.
	2	Keep out of reach of children.	7	Cap tightly after use.
	3	Consult your health care practitioner if any other prescription or over-the-counter medications are currently being used or are prescribed for future use.	8	For external use only.
	4	Keep in a dry place.	9	May impair mental and/or physical ability. Use care when operating a car or machinery.
	5	Keep at room temperature (20°C – 23°C).	10	Protect from light.
Pharmacist Instructions	<p>Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.</p> <p>IMPORTANT: - Small batch is prepared due to inherent potential of systemic toxicity.</p> <ul style="list-style-type: none"> - Limits as to the total amount of product used should be established by a physician. - You should not apply this product to open wounds, areas of skin that are damaged or blistered, deep wounds, or large areas. - Continued application of this product might produce systemic side effects. Advise patient accordingly. <p>IMPORTANT: DRUG-DRUG INTERACTION EXISTS BETWEEN BACLOFEN AND CYCLOBENZAPRINE HYDROCHLORIDE. TO BE DISPENSED AND ADMINISTERED ONLY UNDER THE CLOSE SUPERVISION OF THE PRESCRIBING PHYSICIAN.</p>			
Patient Instructions	<p>Contact your pharmacist in the event of adverse reactions.</p> <p>IMPORTANT: - Do not cover the site of application.</p> <ul style="list-style-type: none"> - The quantity of API administered is directly dependent on the quantity of product applied. 			



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