

TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

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22	Cyclobenzaprine Hydrochloride 2%, Gabapentin 5%, Ketoprofen 20% Topical Gel (Suspension, 30 g)	FIN	F 008 969
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC#	Supplier	Lot Number	Expiry Date
Cyclobenzaprine Hydrochloride, USP	0.600	g				
Gabapentin, USP	1.500	g				
Ketoprofen, USP	6.000	g				
Pentylene Glycol	3.5	mL				
Medisca VersaPro TM Anhydrous Base	18.50	g	Q			





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Cyclobenzaprine Hydrochloride 2%, Gabapentin 5%, Ketoprofen 20% Topical Gel Suggested FIN F 008 969 Formula (Suspension, 30 g)

SPE

CIAL PREPARATORY CONSI	DERATIONS
Ingredient-Specific Information	
Light Sensitive (protect from li	ght whenever possible): Gabapentin, Ketoprofen
Hygroscopic (protect from moi	sture whenever possible): Pentylene Glycol
Suggested Preparatory Guidelines	
Non-Sterile Preparat	ion Sterile Preparation
<u>Processing Error /</u> <u>Testing Considerations</u> :	To account for processing error considerations during preparation, it is suggested to measure an additional 12 to 15% of the required quantities of ingredients.
Special Instruction:	This formula may contain one or more Active Pharmaceutical Ingredients (APIs) that may be classified as hazardous, please refer & verify the current NIOSH list of Antineoplastic and Other Hazardous Drugs in Healthcare Settings. At this time, General Chapter <800> Hazardous Drugs – Handling in Healthcare Settings is informational and not compendially applicable unless otherwise specified by regulators and enforcement bodies. For information on the scope, intended applicability, and implementation context for USP General Chapter <800>, see: https://www.usp.org/compounding/general-chapter-hazardous-drugs-handling-healthcare . This formula must be prepared within the appropriate facilities under adequate environmental conditions, following the necessary guidelines and procedures as stated within USP 795 and USP 800, when handling hazardous drugs. Only trained and qualified personnel must prepare this formula.
	All required personal protective equipment (hazardous if applicable), such as but not limited to, lab coat, protective sleeves, gloves both inner and outer if applicable, dedicated shoe covers, hairnet, beard cover, eyewear, appropriate face mask, respirator and face shield, etc., where applicable must be worn at all times.
	If applicable, follow all required procedures for hazardous drug handling including but not limited to procurement, transport, storage, preparation, dispensing, administration, clean up (spills) & disposal.
	If you are a registered 503B facility, please refer to all relevant guidance documents including but not limited to the Code of Federal Regulations (CFR), Guidance for Industry (GFIs) and Compliance Policy Guides (CPGs).

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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20	Cyclobenzaprine Hydrochloride 2%, Gabapentin 5%, Ketoprofen 20% Topical Gel (Suspension, 30 g)	FIN	F 008 969
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SUGGESTED PREPARATION (for 30 g)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*):	Processing Error	Qty. to measure
Cyclobenzaprine Hydrochloride, USP	0.600	g			
Gabapentin, USP §	1.500	g			
Ketoprofen, USP §	6.000	g	(
Pentylene Glycol §	3.5	mL			
Medisca VersaPro TM Anhydrous Base	18.50	g	ァト		

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

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Preparators	/ Instruction
Treparatory	msu ucuon

. Powder-liquid preparation:

- A. By geometrical addition, combine and triturate the following ingredients together to form a fine, homogeneous powder blend:
 - -Cyclobenzaprine Hydrochloride
 - -Gabapentin
 - -Ketoprofen
- B. Levigate the fine, homogeneous powder blend (Step 1A) with the Pentylene Glycol.

End result: Homogeneous paste-like dispersion.

2. **Phase integration:**

A. Incrementally add the homogeneous paste-like dispersion (Step 1B) to the VersaProTM Anhydrous Base.

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

End result: Homogeneous gel-like dispersion.

B. If the final result is gritty, pass it through the ointment mill until it becomes smooth and uniform.

3. **Product transfer:**

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



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SUGGESTED PRESENTATION

U	GESTED PRI		NIATION					
	Estimat Beyond-Use Da		6 months, as per USP 795*.	Packaging Requirements				
		1	Use as directed. Do not exceed dose.	d prescribed	6	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.		
	Auxiliary	2	May impair mental and or phys Use care when operating a car or			Consult your health care practitioner if any other prescription or over-the-counter medications are currently being used or are prescribed for future use.		
	Labels	3	For external use only.		8	Cap tightly after use.		
		4	Protect from light.		9	Keep in a dry place.		
		5	Keep at controlled room temper – 25°C).	rature (20°C	10	Keep out of reach of children.		
	Pharmacist Instructions	IM HY	PORTANT: DRUG-DRUG I	NTERACTION TERACTION TERAC	ON O Bl	t to the dispensing container as deemed necessary. EXISTS BETWEEN CYCLOBENZAPRINE E DISPENSED AND ADMINISTERED ONLY ESCRIBING PHYSICIAN.		
	Patient	Co	ntact your pharmacist in the event	of adverse re	action	is.		
	Instructions		IMPORTANT: The quantity of API administered is directly dependent on the quantity of product applied					

^{*} The BUD is not later than the time remaining until the earliest expiration date of any API or 6 months, whichever is earlier.



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Suggested Formula	Cyclobenzaprine Hydrochloride 2%, Gabapentin 5%, Ketoprofen 20% Topical Gel (Suspension, 30 g)	FIN	F 008 969	
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REFERENCES

1.	Ointments, Creams, and Pastes. In: Allen, LV, Jr. <i>The Art, Science, and Technology of Pharmaceutical Compounding Fifth Edition</i> . American Pharmacists Association; 2016: 317.
2.	Cyclobenzaprine Hydrochloride. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 38th Edition.</i> London, England: The Pharmaceutical Press; 2014: 2023.
3.	Gabapentin. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 38th Edition.</i> London, England: The Pharmaceutical Press; 2014: 523.
4.	Ketoprofen. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 38th Edition.</i> London, England: The Pharmaceutical Press; 2014: 79.
5.	Cyclobenzaprine (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: #2706.
6.	Gabapentin (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: #4348.
7.	Ketoprofen (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: #5352.
8.	Ketoprofen. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations</i> , 5 th Edition. American Pharmaceutical Association; 2012: 273.
9.	Gabapentin. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations</i> , 5 th Edition. American Pharmaceutical Association; 2012: 221.
10.	Cyclobenzaprine Hydrochloride (Monograph). <i>United States Pharmacopeia XLIII / National Formulary 38.</i> Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 1196.
11.	Gabapentin (Monograph). <i>United States Pharmacopeia XLIII / National Formulary 38.</i> Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 2057.
12.	Ketoprofen (Monograph). <i>United States Pharmacopeia XLIII / National Formulary 38.</i> Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 2509.
13.	USP <795>. <i>United States Pharmacopeia XLIII / National Formulary 38</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 7025.

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