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	Benzocaine 20%, Lidocaine Hydrochloride 7%, Tetracaine Hydrochloride 7% Topical Gel (Suspension, 30 g)	FIN	F 009 035
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Benzocaine, USP	6.000	g				
Lidocaine Hydrochloride, USP	TBD					
Tetracaine Hydrochloride, USP	2.100	g				
Polysorbate 80, NF	0.5	mL				
Ethoxy Diglycol, NF	0.5	mL	œ			
Medisca VersaPro™ Anhydrous Base	1.50	g				
Medisca VersaPro™ Anhydrous Base	TBD					
	ALE NEO	57				



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	Suggested Formula	FIN	F 009 035			
SP		EPARATORY CONSI	DERATIONS			
	Ingredient-	Specific Information				
	Light S	ensitive (protect from la	ight whenever possible):	Benzocaine, Tetracaine Hya 80	lrochlo	ride, Polysorbate
	Hygros	copic (protect from mot	isture whenever possible):	Tetracaine Hydrochloride, I Diglycol	Polysoi	bate 80, Ethoxy
	Oxygen	Sensitive (protect from	ı air whenever possible):	Polysorbate 80		
	Narrow	[,] Therapeutic Index		Lidocaine Hydrochloride		
	Suggested	Preparatory Guidelines				
		Non-Sterile Preparat	ion Sterile Preparation	S &		
		cocessing Error / esting Considerations:		or considerations during prepar % of the required quantities of i		
	<u>S</u> 1	pecial Instruction:	may be classified as hazardous, Antineoplastic and Other Hazar General Chapter <800> Haza informational and not compend and enforcement bodies. For in implementation context for US	or more Active Pharmaceutical 1 , please refer & verify the current rdous Drugs in Healthcare Setting rdous Drugs – Handling in He lially applicable unless otherwiss formation on the scope, intende P General Chapter <800>, see: <u>ling/general-chapter-hazardous-</u>	nt NIOS ngs. At e althc a e speci d appli	SH list of this time, tre Settings is fied by regulators cability, and
			environmental conditions, follo	within the appropriate facilities owing the necessary guidelines a when handling hazardous drugs re this formula.	nd pro	cedures as stated
			limited to, lab coat, protective s dedicated shoe covers, hairnet,	e equipment (hazardous if applie sleeves, gloves both inner and of beard cover, eyewear, appropria licable must be worn at all time	uter if a ate face	applicable,
				d procedures for hazardous drug nsport, storage, preparation, disp	-	
				cility, please refer to all relevant Code of Federal Regulations (C e Policy Guides (CPGs).		
				of very small quantities of ingr st be verified before dispensing		



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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
Benzocaine, USP §	6.000	g			
Lidocaine Hydrochloride, USP	TBD				
Tetracaine Hydrochloride, USP §	2.100	g	¢		
Polysorbate 80, NF §	0.5	mL			
Ethoxy Diglycol, NF §	0.5	mL	1 t		
Medisca VersaPro [™] Anhydrous Base	1.50	g	8		
Medisca VersaPro TM Anhydrous Base	TBD				

§ Weigh / measure just prior to use.
* Takes into account increased batch

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



	ggested ormula	Benzocaine 20%, Lidocaine Hydrochloride 7%, Tetracaine Hydrochloride 7% Topical Gel (Suspension, 30 g)		
		Preparatory Instruction		
1.	Ingre	edient quantification:		
	Α. Ε	Determine the potency of Lidocaine Hydrochloride based on the certificate of analysis:		
				100%
	Ν	/INUS		
	v	Vater Content (from certificate of analysis)	_	%
	Γ	DIVIDED BY		100
	E	EQUALS		
	¢	Quantity of water free Lidocaine Hydrochloride, in decimal	-	
	Ν	/ULTIPLIED BY		
	A	Assay on anhydrous basis result (from certificate of analysis)	_	%
	Γ	DIVIDED BY		100
	E	EQUALS		
	i.	Potency of Lidocaine Hydrochloride, in decimal	_	



Suggested Formula					
2. Ingre	edient quantification:				
	Determine the quantity (in g) of Lidocaine Hydrochloride required to make a Lidocaine F Copical Gel, batch size (30 g):	Hydroc	hloride 7%		
	Quantity of Lidocaine Hydrochloride required for 30 g		2.100 g		
Ι	DIVIDED BY				
P	otency of Lidocaine Hydrochloride, in decimal (Step 1Ai)	_			
E	QUALS				
i	Quantity of Lidocaine Hydrochloride needed for 30 g	-	g		
Ν	AULTIPLIED BY				
F	Processing error adjustments (12 to 15%):	1	.12 to 1.15		
E	QUALS				
i	. Quantity of Lidocaine Hydrochloride needed <i>plus</i> processing error adjustments:	_	g		



	Suggested FormulaBenzocaine 20%, Lidocaine Hydrochloride 7%, Tetracaine Hydrochloride 7% Topical Gel (Suspension, 30 g)FIN		FIN	F 009 035
3.		edient quantification: Determine the actual quantity of VersaPro™ Anhydrous Base to weigh for the required ba	atch si	ze (30 g):
		Fotal Weight of the batch		30.00 g
		/INUS		10.634 g
		/INUS The weight of Lidocaine Hydrochloride (Step 2Ai)		g
	E	EQUALS	-	b
		. Quantity of VersaPro™ Anhydrous Base needed for 30 g ⁄/ULTIPLIED BY	-	g
		Processing error adjustments (12 to 15%)]	.12 to 1.15
		EQUALS i. Weight of VersaPro™ Anhydrous Base required <i>plus</i> processing error adjustmen	its _	g
4.	Powe	ler-liquid preparation:		
	-	Combine and triturate the following ingredients together to form a fine, homogeneous pov Benzocaine Lidocaine Hydrochloride (amount determined in Step 2Aii) Tetracaine Hydrochloride	wder b	lend:
	-	Combine and mix the following ingedients together to from a homogeneous liquid-like di Polysorbate 80 Ethoxy Diglycol VersaPro [™] Anhydrous Base (1.50 g <i>plus</i> processing error adjustments).	spersi	on:
		Levigate the fine, homogeneous powder blend (Step 4A) with the homogeneous liquid-like the fine, homogeneous paste-like dispersion.	te disp	ersion (Step 4B)



-	Suggested FormulaBenzocaine 20%, Lidocaine Hydrochloride 7%, Tetracaine Hydrochloride 7%FINF 009 035FormulaTopical Gel (Suspension, 30 g)FINF 009 035						
5.	Medium incorporation:						
	A. Incrementally add the homogeneous paste-like dispersion (Step 1B) to the VersaPro [™] Anhydrous Base (amount determined in Step 3Aii).						
	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.						
6.	Product transfer:						
	Transfer the final product into the specified dispensing container (see "Packaging requirements").						



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SUGGESTED PRESENTATION

	Estimated yond-Use Date 6 months, as per USP 795*. Pace Required			ging ents	 Tightly closed, light-resistant ointment tube/jar. To be administered with a metered-dose measuring device. 		
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	Protect from light.		
Auxiliary Labels	3	May impair mental and/or phy Use care when operating a car of		8	Consult your health care practitioner if any other prescription or over-the-counter medications are currently being used or are prescribed for future use.		
	4 Cap tightly after use.			9	Keep at controlled room temperature $(20^{\circ}C - 25^{\circ}C)$.		
	5 Keep in a dry place.				For external use only.		
	Ad	d any auxiliary labels specific to	the API to the	e disp	ensing container as deemed necessary.		
	IMPORTANT: - Small batch is prepared due to inherent potential of systemic toxicity.						
Pharmacist	- Limits as to the total amount of product used should be established by a physician.						
Instructions		- 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.							
	Contact your pharmacist in the event of adverse reactions.						
Patient	IM	PORTANT: - Do not cover the	site of applic	ation.			
Instructions - The quantity of API administered is directly dependent on the quantity applied.					directly dependent on the quantity of product		

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

REFERENCES

1.	Gels. In: Allen, LV, Jr. <i>The Art, Science, and Technology of Pharmaceutical Compounding Fifth Edition</i> . American Pharmacists Association; 2016: 339.
2.	Xylocaine Jelly 2%. In: Canadian Pharmacists Association. Compendium of Pharmacists and Specialties, 2017: 3947.
3.	Diethylene Glycol Monoethyl Ether. In: Sheskey, P.J., ed. <i>Handbook of Pharmaceutical Excipients</i> , 8 th Edition. Pharmaceutical Press and American Pharmacists Association; 2017: 321.
4.	Polyoxyethylene Sorbitan Fatty Acid Esters. In: Sheskey, P.J., ed. <i>Handbook of Pharmaceutical Excipients</i> , 8 th <i>Edition</i> . Pharmaceutical Press and American Pharmacists Association; 2017: 736.



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Sugg For	ested Benzocaine 20%, Lidocaine Hydrochloride 7%, Tetracaine Hydrochloride 7% Topical Gel (Suspension, 30 g)	FIN	F 009 035
5.	Benzocaine. In: Brayfield, A., ed. <i>Martindale: The Complete Drug Reference</i> , 38 th Edition. London, England: The Pharmaceutical Press; 2014: 1980.		
6.	Lidocaine Hydrochloride. In: Brayfield, A., ed. <i>Martindale: The Complete Drug Reference, 38th Edition</i> . London, England: The Pharmaceutical Press; 2014: 1988.		
7.	Tetracaine Hydrochloride. In: Brayfield, A., ed. <i>Martindale: The Complete Drug Reference, 38th Edition</i> . London, England: The Pharmaceutical Press; 2014: 1996.		
8.	Benzocaine (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: Monograph #1088.		
9.	Lidocaine (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: Monograph #5535.		
10.	Tetracaine Hydrochloride (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: Monograph #9333.		
11.	Benzocaine. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations</i> , 5 th Edition. American Pharmaceutical Association; 2012: 62.		
12.	Lidocaine Hydrochloride. In: Trissel LA. Trissel's Stability of Compounded Formulations, 5 th Edition. American Pharmaceutical Association; 2012: 288.		
13.	Tetracaine. In: Trissel LA. Trissel's Stability of Compounded Formulations, 5 th Edition. American Pharmaceutical Association; 2012: 463.		
14.	Benzocaine (Monograph). United States Pharmacopeia XLIII / National Formulary 38. Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 502.		
15.	Lidocaine Hydrochloride (Monograph). United States Pharmacopeia XLIII / National Formulary 38. Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 2623.		
16.	Tetracaine Hydrochloride (Monograph). United States Pharmacopeia XLIII / National Formulary 38. Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 4295.		
17.	Benzocaine. Thomson Micromedex. USP DI – Drug Information for the Health Care Professional, 26 th Edition. Taunton, MA: US Pharmacopeial Convention, Inc; 2006: 194.		
18.	Lidocaine. Thomson Micromedex. USP DI – Drug Information for the Health Care Professional, 26 th Edition. Taunton, MA: US Pharmacopeial Convention, Inc; 2006: 196.		
19.	Tetracaine. Thomson Micromedex. USP DI – Drug Information for the Health Care Professional, 26 th Edition. Taunton, MA: US Pharmacopeial Convention, Inc; 2006: 197.		
20.	USP <795>. United States Pharmacopeia XLIII / National Formulary 38. Rockville, MD. US Convention, Inc. 2020: 7025.	S Phar	macopeial

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