



Suggested Formula	Clindamycin Hydrochloride 40.72 mg Oral Capsules (Powder Blend, 100 x Size # 1 Capsule)	FIN	F 001 928v2
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NOTE: Clindamycin Hydrochloride 40.72 mg is equivalent to Clindamycin 37.5 mg.

SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Clindamycin Hydrochloride (Dehydrated), USP	4.072	g				
Lactose (Monohydrate), NF	TBD					
Sodium Chloride, USP	As required					

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Narrow Therapeutic Index:

Clindamycin Hydrochloride (Dehydrated)

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 **5 to 9%** 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.

Clindamycin Hydrochloride (Dehydrated) 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 100 Size #1 Capsules)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*): ____	Processing Error	Qty. to measure
Clindamycin Hydrochloride (Dehydrated), USP	4.072	g			
Lactose (Monohydrate), NF	TBD				
Sodium Chloride, USP	As required				

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

§ Weigh / measure just prior to use.

Preparatory Instruction	
1.	<u>Lactose (Monohydrate) requirements for 100 x size #1 capsules</u> A. Calculate the amount of Lactose (Monohydrate) required for the batch. Refer to attached appendix for details.
2.	<u>Powder preparation:</u> A. Triturate the Clindamycin Hydrochloride to form a fine, homogeneous powder. B. By geometric addition, combine and mix the following ingredients together: -Fine, homogeneous powder (Step 2A) -Lactose (Monohydrate) (Quantity determined in appendix (I))
3.	<u>Product transfer:</u> Fill each of 100 Size #1 capsules with the powder blend (Step 2B). Close each capsule tightly. Clean each capsule by placing the capsules in a container filled with Sodium chloride, and then gently rolling the container. Pour the container contents into a 10-mesh sieve, and allow the Sodium chloride to pass through. Finally, roll the capsules on a cloth-covered surface.
4.	<u>Validation technique (average capsule weight):</u> The final weight of each capsule (not including capsule shell) should fall between 90 and 110% of the theoretically calculated weight, in accordance to USP 795 guidelines. The theoretically calculated weight can be determined by adding the amount in appendix (G) + 0.04072 g together.
5.	<u>Product transfer:</u> Transfer the final product into the specified dispensing container (see "Packaging Requirements").



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SUGGESTED PRESENTATION

Estimated Beyond-Use Date	6 months, as per USP.	Packaging Requirements	Tightly closed vials.
Auxiliary Labels	1 Use as directed. Do not exceed prescribed dose.	4	Keep in a dry place.
	2 Keep out of reach of children.	5	Cap tightly after use.
	3 Keep at room temperature (20°C – 23°C).	6	Consult your health care practitioner if any other prescription or over-the-counter medications are currently being used or are prescribed for future use.
Pharmacist Instructions	Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.		
Patient Instructions	Contact your pharmacist in the event of adverse reactions.		

REFERENCES

1.	Capsules. In: Allen, LV, Jr. <i>The Art, Science and Technology of Pharmaceutical Compounding</i> . American Pharmaceutical Association; 1998: 91.
2.	Dalacin C. In: Canadian Pharmacists Association. <i>Compendium of Pharmacists and Specialties, 2005</i> . 618.
3.	Lactose. In: Rowe RC. <i>Handbook of Pharmaceutical Excipients, 4th Edition</i> . American Pharmaceutical Association; 2003: 323.
4.	Sodium Chloride. In: Rowe RC. <i>Handbook of Pharmaceutical Excipients, 4th Edition</i> . American Pharmaceutical Association; 2003: 556.
5.	Clindamycin Hydrochloride. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 34th Edition</i> . London, England: The Pharmaceutical Press; 2005: 194.
6.	Clindamycin Hydrochloride (Monograph). In: O'Neil MJ. <i>The Merck Index 13th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2001: 411.
7.	Clindamycin Hydrochloride. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations, 3rd Edition</i> . American Pharmaceutical Association; 2005: 108.
8.	Clindamycin Hydrochloride (Monograph). <i>United States Pharmacopeia XXVIII / National Formulary 23</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2004: 493.
9.	USP <795>. <i>United States Pharmacopeia XXVIII / National Formulary 23</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2004: 2457.
10.	Clindamycin Systemic. Thomson Micromedex. <i>USP DI – Drug Information for the Health Care Professional, 26th Edition</i> . Taunton, MA: US Pharmacopeial Convention, Inc; 2006: 904.

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Appendix	Calculating the quantity of excipient required for the batch		
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Procedure																			
1.	<u>Capsule filling:</u> a. For <u>each</u> ingredient powder below, determine the average capsule fill weight by filling and weighing five TARED CAPSULES. Do not forget to divide the total weight by 5 to obtain an <u>average</u> capsule fill weight. Also, triturate the ingredient powder first if required in formulation Plug each amount into Step 2, column B.																		
2.	<u>Volume Percent Occupied:</u> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%; text-align: center;">Column A Quantity Required per capsule</th> <th style="width: 20%; text-align: center;">Column B Average capsule fill weight</th> <th style="width: 20%; text-align: center;">Column C A/B x 100 equals percent filled</th> </tr> </thead> <tbody> <tr> <td>a. Clindamycin Hydrochloride</td> <td style="text-align: center;">0.04072 g</td> <td style="text-align: center;">_____ g</td> <td style="text-align: center;">_____ %</td> </tr> <tr> <td>b. Lactose (Monohydrate)</td> <td></td> <td style="text-align: center;">_____ g</td> <td></td> </tr> <tr> <td>c. Total (add column C together)</td> <td></td> <td></td> <td style="text-align: center;">_____ % (D)</td> </tr> </tbody> </table>				Column A Quantity Required per capsule	Column B Average capsule fill weight	Column C A/B x 100 equals percent filled	a. Clindamycin Hydrochloride	0.04072 g	_____ g	_____ %	b. Lactose (Monohydrate)		_____ g		c. Total (add column C together)			_____ % (D)
	Column A Quantity Required per capsule	Column B Average capsule fill weight	Column C A/B x 100 equals percent filled																
a. Clindamycin Hydrochloride	0.04072 g	_____ g	_____ %																
b. Lactose (Monohydrate)		_____ g																	
c. Total (add column C together)			_____ % (D)																
3.	<u>Calculate the quantity of Lactose (Monohydrate) required for the batch:</u> a. Percent of Lactose (Monohydrate) required = 100% – (D) _____ % (E) b. Average capsule fill weight of Lactose (Monohydrate) (from column B, Step 2b): _____ g (F) c. Quantity of Lactose (Monohydrate) required per capsule = [(E) ÷ 100 × (F)] _____ g (G) d. Total quantity of Lactose (Monohydrate) required for the batch = 100 capsules × (G) _____ g (H) e. Total quantity of Lactose (Monohydrate) <i>plus</i> processing error = (H) x 1.05-1.09 _____ g (I)																		

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