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Suggested Formula	Biotin 2 mg, CollaSil OSA 150 mg Oral Capsules (Powder Blend, 60 × Size #1 Capsules)	FIN	F 007 020
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Biotin, USP	0.120	g				
CollaSil OSA	9.000	g				
Medisca CapsuBlend [™] -H	TBD					
Sodium Chloride, USP	As required					

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Hygroscopic (protect from moisture whenever possible):

Suggested Preparatory Guidelines

Non-Sterile Preparat	
<u>Processing Error /</u> <u>Testing Considerations</u> :	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.
	This procedure requires the use of very small quantities of ingredients. All calculations and preparation techniques must be verified before dispensing the final product.

CollaSil OSA, CapsuBlend-H



FIN

Suggested Formula

Biotin 2 mg, CollaSil OSA 150 mg Oral Capsules (Powder Blend, 60 × Size #1 Capsules)

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SUGGESTED PREPARATION (for 60 Size #1 Capsules)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor ^(*) :	Processing Error	Qty. to measure
Biotin, USP	0.120	g			
CollaSil OSA §	9.000	g			
Medisca CapsuBlend [™] -H §	TBD				
Sodium Chloride, USP	As required		CV I		

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

§ Weigh / measure just prior to use.

Preparatory Instruction

1. CapsuBlendTM-H requirements for 60 × Size #1 Capsules

A. Calculate the amount of CapsuBlendTM-H required for the batch. Refer to attached appendix for details.

2. **Powder preparation:**

A. By geometrical addition, combine and triturate the following ingredients together to form a fine, homogeneous powder blend:

-Biotin

- -CollaSil OSA
- -CapsuBlend[™]-H (quantity determined in appendix (I))

3. **Product transfer:**

Fill each of 60 Size #1 Opaque Capsules with the homogeneous powder blend (Step 2A). 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. Validation technique:

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) + 0.152 g together.



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Suggested Formula

5.

Biotin 2 mg, CollaSil OSA 150 mg Oral Capsules (Powder Blend, 60 × Size #1 Capsules)

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FIN

Product transfer:

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

SUGGESTED PRESENTATION

Estimated Beyond-Use Date		6 months, as per USP*.	Packaging Requirements		Tightly closed capsule shells and vials.		
Auxiliary	1	Use as directed. Do not exceed dose.	d prescribed	4	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	2	Keep out of reach of children.		5	Cap tightly after use.		
	3	Keep in a dry place.		6	Keep at room temperature $(20^{\circ}C - 23^{\circ}C)$.		
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						

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.	Capsules. In: Allen, LV, Jr. <i>The Art, Science and Technology of Pharmaceutical Compounding Fourth Edition.</i> American Pharmaceutical Association; 2012: 157.
2.	Biotin. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 36th Edition</i> . London, England: The Pharmaceutical Press; 2009: 1931.
3.	Biotin (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: #1236.
4.	Biotin (Monograph). <i>United States Pharmacopeia XXXIX / National Formulary 34</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2016: 2764.
5.	USP <795>. United States Pharmacopeia XXXIX / National Formulary 34. Rockville, MD. US Pharmacopeial Convention, Inc. 2016: 617.

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Ар	pendix	Calculating the quantity of excipient	required for the batch						
	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 powder first, if required in formulation. Plug each amount into Step 2, column B. 								
2.	a. (b. C	<u>me Percent Occupied:</u> Ingredients CollaSil OSA apsuBlend [™] -H otal (add column C together)	Column A Quantity Required per capsule 0.150 g	Column B Average capsule fill weight g g		Column C //B x 100 equals ercent filled % (D)			
3.	a. P b. A c. Q d. T	ulate the quantity of CapsuBlend TM -H ercent of CapsuBlend TM -H required = 1 werage capsule fill weight of CapsuBle quantity of CapsuBlend TM -H required p [Quantity of Biotin per capsule] otal Quantity of CapsuBlend TM -H required otal quantity of CapsuBlend TM -H plus	100% - (D) end TM -H (from column B, er capsule = [(E) ÷ 100 × ired for the batch = 60 cap	Step 2b): (F)] - (0.002 g)* psules × (G)	-	% (E) g (F) g (G) g (H) g (I)			

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