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| Suggested<br>Formula | Biotin 2 mg, CollaSil OSA 150 mg Oral Capsules (Powder Blend, 60 × Size #1 Capsules) | FIN | F 007 020 |
|----------------------|--|-----|-----------|
|----------------------|--|-----|-----------|

## SUGGESTED FORMULATION

| Ingredient Listing                 | Qty.        | Unit | NDC # | Supplier | Lot<br>Number | Expiry<br>Date |
|------------------------------------|-------------|------|-------|----------|---------------|----------------|
| Biotin, USP                        | 0.120       | g    |       |          |               |                |
| CollaSil OSA                       | 9.000       | g    |       |          |               |                |
| Medisca CapsuBlend <sup>™</sup> -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><br><u>Testing Considerations</u> : | To account for processing error considerations during preparation, it is suggested to measure an additional <b>5 to 9%</b> 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 <sup>(*)</sup> : | Processing<br>Error | Qty. to measure |
|--------------------------------------|-------------|------|--|---------------------|-----------------|
| Biotin, USP                          | 0.120       | g    |  |                     |                 |
| CollaSil OSA §                       | 9.000       | g    |  |                     |                 |
| Medisca CapsuBlend <sup>™</sup> -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. CapsuBlend<sup>TM</sup>-H requirements for 60 × Size #1 Capsules

A. Calculate the amount of CapsuBlend<sup>TM</sup>-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<sup>™</sup>-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)

F 007 020

FIN

# Product transfer:

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

## SUGGESTED PRESENTATION

| Estimated<br>Beyond-Use Date |   | 6 months, as per USP*.               | Packaging<br>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<br>prescription or over-the-counter medications are<br>currently being used or are prescribed for future<br>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<br>Instructions   | Add any auxiliary labels specific to the API to the dispensing container as deemed necessary. |                                      |                           |   |   |  |  |
| Patient<br>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><br>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 15<sup>th</sup> 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. | <ol> <li><u>Capsule filling:</u> <ul> <li>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.</li> <li>Plug each amount into Step 2, column B.</li> </ul> </li> </ol> |   |  |   |   |   |  |  |  |
| 2. | a. (<br>b. C  | <u>me Percent Occupied:</u><br>Ingredients<br>CollaSil OSA<br>apsuBlend <sup>™</sup> -H<br>otal (add column C together)   | <b>Column A</b><br>Quantity Required<br>per capsule<br>0.150 g   | Column B<br>Average capsule<br>fill weight g<br>g |   | Column C<br>//B x 100 equals<br>ercent filled<br>%<br>(D) |  |  |  |
| 3. | a. P<br>b. A<br>c. Q<br>d. T  | ulate the quantity of CapsuBlend <sup>TM</sup> -H<br>ercent of CapsuBlend <sup>TM</sup> -H required = 1<br>werage capsule fill weight of CapsuBle<br>quantity of CapsuBlend <sup>TM</sup> -H required p<br>[Quantity of Biotin per capsule]<br>otal Quantity of CapsuBlend <sup>TM</sup> -H required<br>otal quantity of CapsuBlend <sup>TM</sup> -H plus | 100% - (D)<br>end <sup>TM</sup> -H (from column B,<br>er capsule = [(E) ÷ 100 ×<br>ired for the batch = 60 cap | Step 2b):<br>(F)] - (0.002 g)*<br>psules × (G)    | - | % (E)<br>g (F)<br>g (G)<br>g (H)<br>g (I)                 |  |  |  |

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