

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

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Suggested Formula	Ribavirin 400 mg Oral Capsules (Powder Blend, 100 x Size #0 Capsules)	FIN	F 008 766
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Ribavirin, USP	40.000	g				
Medisca CapsuBlend®-S	TBD					
Sodium Chloride, USP	As required					





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SPEC

CIAL PREPARATORY CONSID	DERATIONS	
Ingredient-Specific Information		
Light Sensitive (protect from li	ght whenever possible):	Ribavirin
Hygroscopic (protect from moi	sture whenever possible):	CapsuBlend®-S
Suggested Preparatory Guidelines		
Non-Sterile Preparat	ion Sterile Preparation	
Processing Error / Testing Considerations:		or considerations during preparation, it is suggested to of the required quantities of ingredients.
Special Instruction:	may be classified as hazardous, Antineoplastic and Other Hazar General Chapter <800> Haza informational and not compend and enforcement bodies. For infi implementation context for USF	or more Active Pharmaceutical Ingredients (APIs) that please refer & verify the current NIOSH list of dous Drugs in Healthcare Settings. At this time, rdous Drugs – Handling in Healthcare Settings is ially applicable unless otherwise specified by regulators formation on the scope, intended applicability, and P General Chapter <800>, see: ing/general-chapter-hazardous-drugs-handling-
	environmental conditions, follow	within the appropriate facilities under adequate wing the necessary guidelines and procedures as stated when handling hazardous drugs. Only trained and the this formula.
	limited to, lab coat, protective sidedicated shoe covers, hairnet, l	equipment (hazardous if applicable), such as but not leeves, gloves both inner and outer if applicable, beard cover, eyewear, appropriate face mask, respirator licable must be worn at all times.
		d procedures for hazardous drug handling including but sport, storage, preparation, dispensing, administration,
		ility, please refer to all relevant guidance documents Code of Federal Regulations (CFR), Guidance for e 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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SUGGESTED PREPARATION (for 100 Size #0 Capsules)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*):	Processing Error	Qty. to measure
Ribavirin, USP §	40.000	g			
Medisca CapsuBlend®-S	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.	CapsuBlend®-S requirements for 100 x Size #0 Capsules								
	A. Calculate the amount of CapsuBlend®-S 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: -Ribavirin -CapsuBlend®-S (quantity determined in appendix (I)) 								
	B. Pass the above powder mixture through a 40 or 50 mesh sieve.								
	C. Place the sieved powder mixture in a plastic bag and shake for approximately 3 minutes to ensure homogeneity.								



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3. **Product transfer:**

Fill each of 100 Size #0 Opaque Capsules with the homogeneous powder blend (Step 2C). 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) + 0.400 g together.

5. **Product transfer:**

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

SUGGESTED PRESENTATION

 JOESTED I KI		MATION		
Estimated Beyond-Use Date		I b months as per USP /95*	ackaging irement	
		Use as directed. Do not exceed prescridose.	ped 5	Keep in a dry place.
	2	Keep out of reach of children.	6	Cap tightly after use.
Auxiliary Labels	3	Protect from light.	7	Keep at controlled room temperature (20°C – 25°C).
	4	Consult your health care practitioner if other prescription or over-the-coun medications are currently being used or prescribed for future use.	iter	
Pharmacist Instructions	Ad	d any auxiliary labels specific to the API to	the disp	pensing container as deemed necessary.
Patient Instructions	Co	ntact your pharmacist in the event of adver	se reacti	ons.

^{*} 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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REFERENCES

1.	Capsules. In: Allen, LV, Jr. <i>The Art, Science, and Technology of Pharmaceutical Compounding Fifth Edition</i> . American Pharmacists Association; 2016: 189.
2.	Ribavirin. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference</i> , 38 th Edition. London, England: The Pharmaceutical Press; 2014: 1010.
3.	Ribavirin (Monograph). In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: #8323.
4.	Ribavirin (Monograph). <i>United States Pharmacopeia XLIII / National Formulary 38</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 3863.
5.	USP <795>. <i>United States Pharmacopeia XLIII / National Formulary 38</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 7025.

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Ap	pendix	Calculating the quantity of excipient								
	Procedure									
1.	Capsule filling:									
	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, crush and triturate the ingredient first if required in formulation. Plug each amount into Step 2, column B.									
2.	Volu	me Percent Occupied:		©						
	<u>v oru</u>	me i ercent Occupieu.		G. I. C. D.						
			Column A Quantity Required	Column B Average capsule		Column C /B x 100 equals				
		Ingredients	per capsule	fill weight	pe	ercent filled				
	a. R	ibavirin	$0.400\mathbf{g}$	g	-					
	b. C	apsuBlend®-S	W	g						
	c. T	otal (add column C together)			_	% (D)				
3.	Calc	ulate the quantity of CapsuBlend®-S	required for 100 × Size f	#0 Cansules:						
5.				ro Capsuics.		0/ (TE)				
	a. Percent of CapsuBlend®-S required = 100% – D					% (E)				
	b. Average capsule fill weight of CapsuBlend®-S (from column B, Step 2b):					g (F)				
	c. Q	-	g (G)							
	d. T	otal Quantity of CapsuBlend®-S requir	red for the batch = 100 cap	sules \times (G)	-	g (H)				
	e. T	otal quantity of CapsuBlend®-S <i>plus</i> p	rocessing error = $(H) \times 1.0$	95-1.09	_	g (I)				

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