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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC#	Supplier	Lot Number	Expiry Date
Metformin Hydrochloride, USP	25.000	g				
Medisca CapsuBlend TM -H	TBD					
Sodium Chloride, USP	As required					

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information		
Light sensitive (protect from light whenever possible):		Metformin Hydrochloride
Hygroscopic (protect from mot	isture whenever possible):	Metformin Hydrochloride, CapsuBlend™-H
Suggested Preparatory Guidelines		
Non-Sterile Preparat	ion	ORI
<u>Processing Error /</u> <u>Testing Considerations</u> :		considerations during preparation, it is suggested to the required quantities of ingredients.
Special Instruction:	Protective apparel, such as a lab of should always be worn.	coat, disposable gloves, eyewear and face-masks
		f very small quantities of ingredients. All calculations be verified before dispensing the final product.



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Suggested	Metformin Hydrochloride 250 mg Oral Capsules	FIN	F 004 814v2
Formula	(Powder Blend, 100 x Size #1 Capsules)	LIIN	F 004 814V2

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
Metformin Hydrochloride, USP §	25.000	g			
Medisca CapsuBlend TM -H §	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™-H requirements for 100 x size #1 capsules							
	A. Calculate the amount of CapsuBlend TM -H required for the batch. Refer to attached appendix for details.							
	A. Calculate the amount of CapsublendH required for the batch. Refer to attached appendix for details.							
2.	Powder preparation:							
	A. Triturate the Metformin Hydrochloride to form a fine, homogeneous powder.							
	B. By geometric addition, combine and mix the following ingredients together:							
	-Fine, homogeneous powder (Step 2A)							
	-CapsuBlend™-H (Quantity determined in appendix (I))							
3.	Product transfer:							
	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.	Validation technique (average capsule weight):							
	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 $(\mathbf{G}) + 0.250$ g together.							
5.	Product transfer:							
	Transfer the final product into the specified dispensing container (see "Packaging Requirements").							



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Suggested Formula	Metformin Hydrochloride 250 mg Oral Capsules (Powder Blend, 100 x Size #1 Capsules)	FIN	F 004 814v2
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SUGGESTED PRESENTATION

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Estima Beyond-Use D		6 months as ner LISP		Packaging Requirements				
		1	Use as directed. Do not exceed dose.	l prescribed	6	Keep in a dry place.		
		2	Keep out of reach of children.		7	Keep at room temperature (20°C – 23°C).		
	A	3	Cap tightly after use.		8	Protect from light.		
	Auxiliary Labels	4	Consult your health care practit other prescription or over- medications are currently being prescribed for future use.	-the-counter	9	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.		
		5	May impair mental and/or phys Use care when operating machinery.	•	V			
	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				is.		

REFERENCES

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Appendix Calculating the quantity of excipient required for the batch								
Procedure								
1.	 Capsule filling: a. For each 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 average capsule fill weight. Also, triturate the ingredient powder first if required in formulation Plug each amount into Step 2, column B. 							
2.	Volu	me Percent Occupied:		(8)				
	:	<u>Ingredients</u>	Column A Quantity Required per capsule	Column B Average capsule fill weight		Column C /B x 100 equals ercent filled		
	a. M	letformin Hydrochloride	0.250 g	g		%		
	b. CapsuBlend TM -H							
	c. T	otal (add column C together)				% (D)		
3.	Calculate the quantity of CapsuBlend™-H required for the batch:							
	a. Percent of CapsuBlend TM -H required = 100% – (D) % (E							
	b. A	verage capsule fill weight of CapsuBle		g (F)				
	c. Q	quantity of CapsuBlend TM -H required p		g (G)				
	d. T	otal quantity of CapsuBlend TM -H requi		g (H)				
	e. T	otal quantity of CapsuBlend TM -H plus	x 1.05-1.09		g (I)			

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