



Suggested Formula	Tranexamic Acid 250 mg Oral Capsules (Powder Blend, 100 x Size #0 Capsules)	FIN	F 004 310v2
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## SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Tranexamic Acid, BP	25.000	g				
Medisca CapsuBlend™-S	TBD					
Sodium Chloride, USP	As required					

## SPECIAL PREPARATORY CONSIDERATIONS

### Ingredient-Specific Information

**Hygroscopic** (protect from moisture whenever possible):

CapsuBlend™-S

### 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.

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 <sup>(*)</sup> : ____	Processing Error	Qty. to measure
Tranexamic Acid, BP	25.000	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.	<b><u>CapsuBlend™-S requirements for 100 x size #0 capsules</u></b> A. Calculate the amount of CapsuBlend™-S required for the batch. Refer to attached appendix for details.
2.	<b><u>Powder preparation:</u></b> A. By geometric addition, combine and mix the following ingredients together: -Tranexamic Acid -CapsuBlend™-S (Quantity determined in appendix (I))
3.	<b><u>Product transfer:</u></b> Fill each of 100 Size #0 capsules with the 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.	<b><u>Validation technique (average capsule weight):</u></b> 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) + 0.250 g together.
5.	<b><u>Product transfer:</u></b> 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	Keep at room temperature (20°C – 23°C).
	3	Cap tightly after use.	6	Consult your health care practitioner if any 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 Third Edition</i> . American Pharmaceutical Association; 2008: 127.
2.	Tranexamic Acid Injection BP. In: Canadian Pharmacists Association. <i>Compendium of Pharmacists and Specialties, 2009</i> : 2345.
3.	Sodium Chloride. In: Rowe RC. <i>Handbook of Pharmaceutical Excipients, 6<sup>th</sup> Edition</i> . American Pharmaceutical Association; 2009: 637.
4.	Tranexamic Acid. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 36<sup>th</sup> Edition</i> . London, England: The Pharmaceutical Press; 2009: 1080.
5.	Tranexamic Acid (Monograph). In: O'Neil MJ. <i>The Merck Index 14<sup>th</sup> Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2006: Monograph #9569.
6.	Tranexamic Acid Systemic. <i>USP DI – Drug Information for the Health Care Professional, 26<sup>th</sup> Edition</i> . Taunton, MA: US Pharmacopeial Convention, Inc; 2006: 2876.
7.	USP <795>. <i>United States Pharmacopeia XXXII / National Formulary 27</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2009: 314.

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Appendix	Calculating the quantity of excipient required for the batch		
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Procedure																			
<b>1.</b>	<b><u>Capsule filling:</u></b> 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.  Plug each amount into Step 2, column B.																		
<b>2.</b>	<b><u>Volume Percent Occupied:</u></b>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><u>Ingredients</u></th> <th style="text-align: center; padding: 5px;"><b>Column A</b> Quantity Required per capsule</th> <th style="text-align: center; padding: 5px;"><b>Column B</b> Average capsule fill weight</th> <th style="text-align: center; padding: 5px;"><b>Column C</b> A/B x 100 equals percent filled</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">a. Tranexamic Acid</td> <td style="text-align: center; padding: 5px;">0.250 g</td> <td style="text-align: center; padding: 5px;">_____ g</td> <td style="text-align: center; padding: 5px;">_____ %</td> </tr> <tr> <td style="padding: 5px;">b. CapsuBlend™-S</td> <td></td> <td style="text-align: center; padding: 5px;">_____ g</td> <td></td> </tr> <tr> <td style="padding: 5px;">c. Total (add column C together)</td> <td></td> <td></td> <td style="text-align: center; padding: 5px;">_____ % <b>(D)</b></td> </tr> </tbody> </table>			<u>Ingredients</u>	<b>Column A</b> Quantity Required per capsule	<b>Column B</b> Average capsule fill weight	<b>Column C</b> A/B x 100 equals percent filled	a. Tranexamic Acid	0.250 g	_____ g	_____ %	b. CapsuBlend™-S		_____ g		c. Total (add column C together)			_____ % <b>(D)</b>
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b. CapsuBlend™-S		_____ g																	
c. Total (add column C together)			_____ % <b>(D)</b>																
<b>3.</b>	<b><u>Calculate the quantity of CapsuBlend™-S required for the batch:</u></b>  a. Percent of CapsuBlend™-S required = 100% – (D) _____ % <b>(E)</b>  b. Average capsule fill weight of CapsuBlend™-S (from column B, Step 2b): _____ g <b>(F)</b>  c. Quantity of CapsuBlend™-S required per capsule = [(E) ÷ 100 × (F)] _____ g <b>(G)</b>  d. Total quantity of CapsuBlend™-S required for the batch = 100 capsules × (G) _____ g <b>(H)</b>  e. Total quantity of CapsuBlend™-S <i>plus</i> processing error = (H) x 1.05-1.09 _____ g <b>(I)</b>																		

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