MEDISCA® NETWORK INC.
TECHNICAL SUPPORT SERVICES
FORMULATION CHEMISTRY DEPARTMENT
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Suggested Formula	Succimer 250 mg Oral Capsules (Powder Blend, 100 × Size #1 Capsules)	FIN	F 008 236

SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Succimer	25.000	g				
Medisca CapsuBlend®-S	TBD					
Sodium Chloride, USP	As needed					

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: This formula may contain one or more Active Pharmaceutical Ingredients (APIs) that may be classified as hazardous, please refer & verify the current NIOSH list of Antineoplastic and Other Hazardous Drugs in Healthcare Settings. At this time, **General Chapter <800> Hazardous Drugs – Handling in Healthcare Settings** is informational and not compendially applicable unless otherwise specified by regulators and enforcement bodies. For information on the scope, intended applicability, and implementation context for USP General Chapter <800>, see: https://www.usp.org/compounding/general-chapter-hazardous-drugs-handling-healthcare.

This formula must be prepared within the appropriate facilities under adequate environmental conditions, following the necessary guidelines and procedures as stated within *USP 795* and *USP 800,* when handling hazardous drugs. Only trained and qualified personnel must prepare this formula.

All required personal protective equipment (hazardous if applicable), such as but not limited to, lab coat, protective sleeves, gloves both inner and outer if applicable, dedicated shoe covers, hairnet, beard cover, eyewear, appropriate face mask, respirator and face shield, etc., where applicable must be worn at all times.

If applicable, follow all required procedures for hazardous drug handling including but not limited to procurement, transport, storage, preparation, dispensing, administration, clean up (spills) & disposal.

If you are a registered 503B facility, please refer to all relevant guidance documents including but not limited to the Code of Federal Regulations (CFR), Guidance for Industry (GFIs) and Compliance 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 #1 Capsules)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*): ____	Processing Error	Qty. to measure
Succimer	25.000	g			
Medisca CapsuBlend®-S §	TBD				
Sodium Chloride, USP	As needed				

* 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 Size #1 Capsules** A. Calculate the amount of CapsuBlend®-S required for the batch. Refer to attached appendix for details.
2.	**Powder preparation:** A. By geometric addition, combine and triturate the following ingredients together to form a homogeneous powder blend: -Succimer -CapsuBlend®-S (quantity determined in appendix **(I)**) B. Pass the above powder mixture through a 40 or 50 mesh sieve. C. Mix the sieved powder blend using a manual tumbler mixer to ensure homogeneity.
3.	**Product transfer:** Fill each of 100 Size #1 Capsules with the 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) + 0.250 g** together.

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5.	**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 795*.	Packaging Requirements		Tightly closed, capsule shells and vials.
Auxiliary Labels	1	Use as directed. Do not exceed prescribed dose.	5	Keep at controlled room temperature (20°C – 25°C).	
	2	Keep out of reach of children.	6	Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.	
	3	Cap tightly after use.	7	Keep in a dry place.	
	4	May impair mental and/or physical ability. Use care when operating a car or machinery.	8	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.	
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.**

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REFERENCES

1.	Capsules. In: Allen, LV, Jr. *The Art, Science, and Technology of Pharmaceutical Compounding Fifth Edition.* American Pharmacists Association; 2016: 189.
2.	Sodium Chloride. In: Rowe RC. *Handbook of Pharmaceutical Excipients, 7th Edition*. American Pharmaceutical Association; 2012: 729.
3.	Succimer. In: Sweetman SC, ed. *Martindale: The Complete Drug Reference, 36th Edition.* London, England: The Pharmaceutical Press; 2009: 1466.
4.	Succimer (Monograph). In: O'Neil MJ. *The Merck Index 15th Edition*. Whitehouse Station, NJ: Merck & Co, Inc.; 2013: Monograph #8995.
5.	USP <795>. *United States Pharmacopeia XLII / National Formulary 37.* Rockville, MD. US Pharmacopeial Convention, Inc. 2019: 6951.

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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, crush and triturate the ingredient first if required in formulation.

   Plug each amount into Step 2, column B.

2. **Volume Percent Occupied:**

Ingredients	**Column A** Quantity Required per capsule	**Column B** Average capsule fill weight	**Column C** A/B x 100 equals percent filled
a. Succimer	0.250 g	_____ **g**	_____ %
b. CapsuBlend®-S		_____ **g**	
c. Total (add column C together)			_____ % **(D)**

3. **Calculate the quantity of CapsuBlend®-S required for the batch:**

   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. Quantity of CapsuBlend®-S required per capsule = [(E) ÷ 100 × (F)] _____ g **(G)**

   d. Total Quantity of CapsuBlend®-S required for the batch = 100 capsules × (G) _____ g **(H)**

   e. Total quantity of CapsuBlend®-S *plus* processing error = (H) × 1.05-1.09 _____ g **(I)**

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