

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

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Suggested Formula	Cefotetan 95 mg/mL Intravenous Injection (Solution, 10 mL)	FIN	F 008 722

SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Cefotetan Disodium , USP	TBD					
Sterile Water for Injection, USP	8.0	mL				
Sterile Water for Injection, USP	q.s. to 10.0	mL				
Hydrochloric Acid 10% Solution	As required					





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ECIAL PREPARATORY CONS	IDERATIONS		
Suggested Preparatory Guidelines			
Non-Sterile Prepara	tion Sterile Preparation		
Processing Error / Testing Considerations:	To account for processing error, pH testing, sterility considerations during preparation, it is suggested to measure an the required quantities of ingredients.		
Special Instruction:	This formula may contain one or more Active Pharmaceutical I may be classified as hazardous, please refer & verify the curren Antineoplastic and Other Hazardous Drugs in Healthcare Settin General Chapter <800> Hazardous Drugs – Handling in He informational and not compendially applicable unless otherwise and enforcement bodies. For information on the scope, intended implementation context for USP General Chapter <800>, see: https://www.usp.org/compounding/general-chapter-hazardous-healthcare.	t NIOS ags. At ealthca e specif d applic	SH list of this time, re Settings is fied by regulators cability, and
	This formula must be prepared within the appropriate facilities environmental conditions, following the necessary guidelines a within <i>USP 797</i> and <i>USP 800</i> , when handling hazardous drugs qualified personnel must prepare this formula.	nd proc	cedures as stated
	All heat stable, reusable materials and equipment must be steril by dry heat sterilization at 250°C for 2 hours prior to use.	ized an	d depyrogenated
	Compounder needs to verify as per USP, if every batch of final using this procedure must be sterility and endotoxin tested before		
	All required personal protective equipment (sterile and hazardo as but not limited to, gowns, aprons, sleeves, gloves both inner shoe covers, hairnet, head cap, beard cover, eyewear, appropria and face shield, etc., where applicable must be worn at all times personnel cleansing must be done before entering the buffer or	and ou te face s. In ad	ter if applicable, mask, respirator dition, proper
	If applicable, follow all required procedures for hazardous drug		•

not limited to procurement, transport, storage, preparation, dispensing, administration, clean up (spills) & disposal.

Filter integrity must be validated by performing a filter stress test. If the test demonstrates that the filter might be defective, the solution must be discarded and remade.

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 10 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*):	Processing Error	Qty. to measure
Cefotetan Disodium , USP §	TBD				
Sterile Water for Injection, USP §	8.0	mL			
Sterile Water for Injection, USP §	q.s. to 10.0	mL	©		
Hydrochloric Acid 10% Solution §	As required				

- * Takes into account increased batch size conversions and density conversions, if required.
- § Weigh / measure just prior to use.

	Preparatory Instruction	
	IMPORTANT: All preparatory procedures must be performed using proper A	septic Technique
1.	Equipment sterilization:	
	Following the manufacturer's specifications, sterilize and depyrogenate all heat sta equipment, then return to ambient temperature.	ble, reusable materials and
2.	Ingredient quantification:	
	A. Determine the quantity (in g) of Cefotetan Disodium required to make a Cefotetan (B Injection, batch size (10 mL):	Base) 95 mg/mL Intravenous
	Quantity of <u>Cefotetan (Base)</u> required for 10 mL	950 mg
	DIVIDED BY	
	Assay (base equivalent) on anhydrous basis result (from certificate of analysis: $\mu g/mg = mg/g$)	μg/mg
	EQUALS	
	i. Quantity of Cefotetan Disodium needed for 10 mL	g
	MULTIPLIED BY	
	Processing error adjustments (20 to 25%)	1.20 to 1.25
	EQUALS	
	ii. Quantity of Cefotetan Disodium needed plus processing error adjustments	g



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3. **Medium integration:**

A. Incrementally add the Cefotetan Disodium (amount determined in step 2Aii) to the Sterile Water for Injection (8.0 mL plus processing error adjustments).

Specifications: Continuously mix until all solid particles have completely dissolved.

End result: Homogeneous liquid-like solution.

4. **pH testing:**

- A. Draw an appropriate amount of the mixture (Step 3A).
- B. Test the pH of the sample. It should lie between 4.5 and 6.5.
- C. If the pH > 6.5, carefully add, in a dropwise fashion, the Hydrochloric Acid 10% Solution to the mixture:
 - 1. Draw and transfer 1 or 2 drops of the Hydrochloric Acid 10% Solution to the mixture.
 - 2. Stir for at least 5 minutes to evenly disperse the Hydrochloric Acid 10% Solution.
 - 3. Re-test the pH.
 - 4. Continue to add the Hydrochloric Acid 10% Solution until the pH of 4.5 to 6.5 is obtained.

IMPORTANT: Do not allow the pH to fall below 4.5.

5. Filling to volume:

A. Add additional Sterile Water for Injection to the above mixture to fill to the required batch size (10.0 mL *plus* processing error adjustments).

Specifications: Continuously mix until homogeneous.

End result: Homogeneous liquid-like solution.

6. Filtering and transferring:

Aseptically filter the solution through a 0.22-µm sterile filter into the recommended dispensing container (see Packaging requirements). Transfer the remainder into a separate dispensing container. This is to be used as the test sample for sterility and endotoxin testing.

7. Filter integrity test:

Validate filter integrity by performing a filter stress test. If the test demonstrates that the filter might be defective, the solution must be discarded and remade.



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8. Terminal Sterilization:

In relation to the chemical composition of the formulation, final packaging, etc., select and validate an end-stage sterilization method and follow the manufacturer's specifications.

9. **Sterility and Endotoxin testing:**

Validate the test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.

SUGGESTED PRESENTATION

Estima Beyond-Use D		24 hours controlled room temperature, 3 days refrigerated, or 45 days frozen, as per USP 797. BUD based on successful endotoxin test result.	Packa Requirem		Sterile, tightly closed, unit-dose injection vials.
	1	Use as directed. Do not exceed dose.	l prescribed	7	Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.
	2	Keep out of reach of children.		8	Do not use if discolored.
Auxiliary Labels	3	Discard container after use.		9	Keep at controlled room temperature, (20°C – 25°C), refrigerated (2°C – 8°C) or frozen (-25°C to -10°C).
	4	Equilibrate to room temperature	before use.	10	Preservative free solution, single use only. Discard any unused portion.
	5	Slightly hypertonic, inject slowly	y.	11	Discard in the presence of particulate matter.
	6	Do not take with alcohol, tranquilizers or other CNS depre	•		
Pharmacist Instructions	Ad	d any auxiliary labels specific to the	he API to the	dispe	nsing container as deemed necessary.
Patient Instructions	(Contact your pharmacist in the event of adverse reactions				ns.



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2.	Cefotetan Disodium. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference</i> , 38 th Edition. London, England: The Pharmaceutical Press; 2014: 245.
3.	Cefotetan Disodium (Monograph). <i>United States Pharmacopeia XLIII / National Formulary 38.</i> Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 855.
4.	USP <797>. United States Pharmacopeia XLIII / National Formulary 38. Rockville, MD. US Pharmacopeial Convention, Inc. 2020: 7037.

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