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Suggested Formula	Vecuronium Bromide 1 mg/mL Intravenous Infusion (Solution, 10 mL)	FIN	F 008 704	
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Vecuronium Bromide 1% Stock Solution †	1.00	mL				
Sodium Chloride, USP	0.089	g				
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					
			8			
† Vecuronium Bromide 1% Stock Solution						
Vecuronium Bromide, USP	0.100	g		-		
Sterile Water for Injection, USP	8.0	mL	4			
Sterile Water for Injection, USP	q.s. to 10.0	mL	$\hat{\mathbf{O}}$			



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FIN

SPECIAL PREPARATORY CONSIDERATIONS

Suggested Preparatory Guidelines

] Non-Sterile Preparation

Sterile Preparation

<u>Processing Error /</u> Testing Considerations:

To account for processing error, pH testing, sterility and endotoxin testing considerations during preparation, it is suggested to measure an additional **20 to 25%** 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: <u>https://www.usp.org/compounding/general-chapter-hazardous-drugs-handling-</u> healthcare.

This formula must be prepared within the appropriate facilities under adequate environmental conditions, following the necessary guidelines and procedures as stated within *USP 797* and *USP 800*, when handling hazardous drugs. Only trained and qualified personnel must prepare this formula.

All heat stable, reusable materials and equipment must be sterilized and depyrogenated by dry heat sterilization at 250°C for 2 hours prior to use.

Compounder needs to verify as per USP, if every batch of final product compounded using this procedure must be sterility and endotoxin tested before being dispensed.

All required personal protective equipment (sterile and hazardous if applicable), such as but not limited to, gowns, aprons, sleeves, gloves both inner and outer if applicable, shoe covers, hairnet, head cap, beard cover, eyewear, appropriate face mask, respirator and face shield, etc., where applicable must be worn at all times. In addition, proper personnel cleansing must be done before entering the buffer or clean area.

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.

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
Vecuronium Bromide 1% Stock Solution † §	1.00	mL			
Sodium Chloride, USP §	0.089	g			
Sterile Water for Injection, USP §	8.0	mL			
Sterile Water for Injection, USP §	q.s. to 10.0	mL	5		
Hydrochloric Acid 10% Solution §	As required				
		5	8		
† Vecuronium Bromide 1% Stock Solution			0		
Vecuronium Bromide, USP §	0.100	g			
Sterile Water for Injection, USP §	8.0	mL			
Sterile Water for Injection, USP §	q.s. to 10.0	mL			

* 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 Aseptic Technique

1. Equipment sterilization:

Following the manufacturer's specifications, sterilize and depyrogenate all heat stable, reusable materials and equipment, then return to ambient temperature.

2. † <u>Vecuronium Bromide 1% Stock Solution preparation</u>:

A. Incrementally add the Vecuronium Bromide to the Sterile Water for Injection (8.0 mL).

Specifications: Continuously mix.

End result: Homogeneous liquid-like solution.

B. Add additional Sterile Water for Injection to the mixture (Step 2A) to fill to the required batch size (10.0 mL).

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

End result: Homogeneous liquid-like solution.



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3.	3. Medium incorporation:				
	A. In the given order, sequentially add the following ingredients to the Sterile Water for Injection (8.0 mL <i>plus</i> processing error adjustments):				
	-Vecuronium Bromide 1% Stock Solution (1.00 mL <i>plus</i> processing error adjustments) -Sodium Chloride				
	<u>s</u>	pecifications: Continuously mix.			
	E	and result: Homogeneous liquid-like solution.			
	<u>1</u>	Note: Add the next ingredient, once the previous one has been completely added and dise	solved.		
4.	<u>pH t</u>	esting:			
	A. I	Draw an appropriate amount of the mixture (Step 3A).			
	В. Т	est the pH of the sample. It should lie between 3.5 and 4.5.			
	C. If the pH > 4.5, carefully add, in a dropwise fashion, the Hydrochloric Acid 10% Solution to the mixture:				
		 Draw and transfer 1 or 2 drops of the Hydrochloric Acid 10% Solution to the mixture. Stir for at least 5 minutes to evenly disperse the Hydrochloric Acid 10% Solution. Re-test the pH. Continue to add the Hydrochloric Acid 10% Solution until the pH of 3.5 to 4.5 is obt IMPORTANT: Do not allow the pH to fall below 3.5. 			
5.	<u>Fillir</u>	g to volume:			
		add additional Sterile Water for Injection to the above mixture to fill to the required batch rocessing error adjustments).	h size (10.0 mL <i>plus</i>	
	<u>S</u>	pecifications: Continuously mix.			
	Ē	and result: Homogeneous liquid-like solution.			
6.	Filte	ring and transferring:			
	requi	tically filter the solution through a 0.22 - μ m sterile filter into the recommended dispensing rements). Transfer the remainder into a separate dispensing container. This is to be use ity and endotoxin testing.			



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7.	7. <u>Filter integrity test:</u>					
		te filter integrity by performing a filter stress test. If the test demonstrates that the filte n must be discarded and remade.	er migl	nt be defective, the		
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.	<u>Sterili</u>	ty and Endotoxin testing:				
	Valida	te the Test sample for sterility and endotoxin, in accordance to current USP 797 regulat	ory gu	idelines.		
UGGE	IGGESTED PRESENTATION					

SUGGESTED PRESENTATION

Estimate Beyond-Use Dat		24 hours controlled room temperature, 3 days refrigerated, or 45 days frozen, as per USP 797. BUD based on successful endotoxin test result.		Sterile, tightly closed unit-dose injection vials.	
	1	Use as directed. Do not exceed prescribed dose.	6	Discard in the presence of particulate matter.	
	2	Keep out of reach of children.	7	For intravenous use only.	
Auxiliary Labels	3	Keep at controlled room temperature, $(20^{\circ}C - 25^{\circ}C)$, refrigerated $(2^{\circ}C - 8^{\circ}C)$ or frozen (-25°C to -10°C).	8	Cap tightly after use.	
Labers	4	Do not use if product changes color.	9	Preservative free solution, single use only. Discard any unused portion.	
	5	Consult your health care practitioner if any other 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 active ingredient to the dispensing container as deemed necessary				
Patient	Co	ntact your pharmacist in the event of adverse re	actior	15.	
Instructions	IM	PORTANT: The quantity of API administered	ł is di	rectly dependent on the quantity of product applied.	



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