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Suggested Formula	Sodium Bicarbonate 8.4 % Intravenous Injection (Solution, 50 mL)	FIN	F 001 512	
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Sodium Bicarbonate, USP	4.200	g				
Sterile Water For Injection, USP	46.0	mL				
Sterile Water For Injection, USP	q.s. to 50.0	mL				
Sodium Hydroxide 1N Solution	As required		6			

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	Suggested FormulaSodium Bicarbonate 8.4 % Intravenous Injection (Solution, 50 mL)FINF 001 512						
SPE	ECIAL PREPARATORY CONSIDERATIONS						
	Ingredient-Specific Information						
	Moisture	e sensitive (protect from	m humidity whenever possible): Sodium Bicarbonate				
	Suggested P	reparatory Guidelines					
] Non-Sterile Preparat	ion Sterile Preparation				
		cessing Error / sting Considerations:	To account for processing error, pH testing, sterility and considerations during preparation, it is suggested to measure an add of the required quantities of ingredients.				
	<u>Spe</u>	ecial Instruction:	This formula must be prepared within the appropriate facilities under environmental conditions, following the necessary guidelines and pro- within <i>USP 797</i> . Only trained and qualified personnel must prepare the	cedure	s as stated		
			All heat stable, reusable materials and equipment must be sterilized a by dry heat sterilization at 250°C for 2 hours prior to use.	nd dep	yrogenated		
			Every batch of final product compounded using this procedure must l endotoxin tested before being dispensed.	be steri	lity and		
			Protective apparel, such as a sterile gown, sterile gloves, shoe covers, eyewear and face-masks should always be worn. In addition, proper cleansing must be done before entering the buffer or clean area.				
	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.						
			This procedure requires the use of very small quantities of ingredient and preparation techniques must be verified before dispensing the fin				

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Suggested Formula	Sodium Bicarbonate 8.4 % Intravenous Injection (Solution, 50 mL)	FIN	F 001 512	
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SUGGESTED PREPARATION (for 50 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor ^(*) :	Processing Error	Qty. to measure
Sodium Bicarbonate, USP §	4.200	g			
Sterile Water For Injection, USP §	46.0	mL			
Sterile Water For Injection, USP §	q.s. to 50.0	mL	\otimes		
Sodium Hydroxide 1N 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 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.	Powder-liquid preparation:
	A. Combine and mix the following ingredients together:
	 Sodium Bicarbonate Sterile Water For Injection (46.0 mL plus processing error adjustments)
	Specifications: Continuously mix until all solid particles have completely dissolved.
	End result: Homogeneous liquid-like dispersion.

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	Suggested FormulaSodium Bicarbonate 8.4 % Intravenous Injection (Solution, 50 mL)FINF 001 512						
3.	3. pH testing:						
	A. Draw an appropriate amount of the mixture (step 2A).						
	B. Test the pH of the sample. It should lie between 8.1 and 8.5.						
	C. If the $pH \le 8.1$, carefully add in a dropwise manner the Sodium Hydroxide 1N Solution to the r	nixture	<u>:</u>				
	 Draw and transfer 1 or 2 drops of the Sodium Hydroxide 1N Solution to the mixture. Stir for at least 5 minutes to evenly disperse the Sodium Hydroxide 1N Solution. Re-test the pH. Continue to add the Sodium Hydroxide 1N Solution until the pH of 8.1 to 8.5 is obtained. 						
	IMPORTANT: Do not allow the pH to rise above 8.5.						
4.	Filling to volume:						
	A. Add additional Sterile Water For Injection to the above mixture to fill to the required batch size (50.0 mL <i>plus</i> processing error adjustments).						
	Specifications: Continuously mix.						
	End result: Homogeneous liquid-like solution.						
5.	Filtering and transferring:						
	Aseptically filter the solution through a 0.22-µm sterile filter into the recommended dispense Packaging requirements). Transfer the remainder into a separate dispensing container. This is to sample for sterility and endotoxin testing.						
6.	Filter integrity test:						
	Validate filter integrity by performing a filter stress test. If the test demonstrates that the filter mig solution must be discarded and remade.	tht be c	defective, the				
7.	Sterility testing:						
	Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory g	guidelii	nes.				

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Suggest Form	^d Sodium Bicarbonate 8.4 % Intravenous Injection (Solution, 50 mL)	FIN	F 001 512	
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SUGGESTED PRESENTATION

Estimated Beyond-Use Date		14 days, refrigerated. BUD based on a successful sterility and endotoxin test result.	Packaging Requirements		Nerlie linit dose infection vigis	
	1	Use as directed. Do not exceed dose.	d prescribed		Consult your health care practitioner if any other prescription or over-the-counter medications are currently being used or are prescribed for future use.	
Auxiliary Labels	2	Keep out of reach of children.		6	Discard container after use.	
	3	Keep cool but do not refrigerate.	_	7	Hypertonic solution, inject slowly.	
	4	Do not use if discolored.			Discard in the presence of particulate matter.	
Pharmacist Instructions Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.					ensing container as deemed necessary.	
Patient Instructions	Contact your pharmacist in the event of adverse reactions					

REFERENCES

1.	Sodium Bicarbonate (Monograph). In: O'Neil MJ. <i>The Merck Index 13th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2001: 1536.
2.	Sodium Bicarbonate (Monograph). US Pharmacopeial Convention, Inc. United States Pharmacopeia XXV / National Formulary 20. Rockville, MD: US Pharmacopeial Convention, Inc; 2001: 1575.
3.	USP <797> Pharmaceutical Compounding – Sterile Preparations. US Pharmacopeial Convention, Inc. United States Pharmacopeia XXVIII / National Formulary 23. Rockville, MD. 2004: 2461.

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