

### MEDISCA<sup>®</sup> NETWORK INC. TECHNICAL SUPPORT SERVICES FORMULATION CHEMISTRY DEPARTMENT TOLL-FREE: 866-333-7811 TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

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	Suggested Formula	Dexamethasone Sodium Phosphate 11.0 mg/mL Injection (Solution, 100 mL)	FIN	F 004 798	
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NOTE: Dexamethasone Sodium Phosphate 11.0 mg/mL is equivalent to Dexamethasone Phosphate 10 mg/mL.

# SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Dexamethasone Sodium Phosphate, USP	1.100	g				
Benzyl Alcohol, NF	1.0	mL				
Sodium Metabisulfite, NF	0.10	g	(			
Sodium Citrate, USP	1.00	g	S			
Sodium Chloride, USP	0.166	g	A A			
Sterile water for injection, USP	90.0	mL				
Sterile water for injection, USP	100.0	mL		X		
Citric Acid 10% Solution	As required					
Sodium Hydroxide 10% Solution	As required					



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	Suggested Formula	Dexamethasone Sodi	um Phosphate 11.0 mg/mL Injectio	n (Solution, 100 mL)	FIN	F 004 798
SPE		PARATORY CONSI	DERATIONS			
	Ingredient-S	pecific Information				
	Light sei	<b>nsitive</b> (protect from lig	ght whenever possible):	Benzyl Alcohol, Sodium Metabisul	fite	
	Hygrosc	<b>opic</b> (protect from moi	sture whenever possible):	Dexamethasone Sodium Phosphat	е	
	Moisture	e <b>sensitive</b> (protect from	n humidity whenever possible):	Sodium Metabisulfite		
	Air sens	<b>itive</b> (protect from air v	vhenever possible):	Sodium Metabisulfite		
	Suggested P	reparatory Guidelines		Crec.		
		] Non-Sterile Preparat	ion Sterile Preparation			
		cessing Error / sting Considerations:		, pH, sterility and endotoxin testi ed to measure an additional 5 to 9		
	<u>Spe</u>	ecial Instruction:	This formula must be prepared wire environmental conditions, following	thin the appropriate facilities under ing the necessary guidelines and pro l qualified personnel must prepare th	ocedure	s as stated
			·	and equipment must be sterilized a		
			Every batch of final product comp endotoxin tested before being disp	pounded using this procedure must l	be steril	lity and
	Protective apparel, such as a sterile gown, sterile gloves, shoe coreyewear and face-masks should always be worn. In addition, procleansing must be done before entering the buffer or clean area.					
		the test iscarde				
				f very small quantities of ingredient be verified before dispensing the fin		



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Suggested Formula Dexameth	hasone Sodium Phosphate 11.0 mg/mL Injection (Solution, 100 mL)	FIN	F 004 798	
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# SUGGESTED PREPARATION (for 100 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor <sup>(*)</sup> :	Processing Error	Qty. to measure
Dexamethasone Sodium Phosphate, USP §	1.100	g			
Benzyl Alcohol, NF §	1.0	mL			
Sodium Metabisulfite, NF §	0.10	g	$\odot$		
Sodium Citrate, USP §	1.00	g			
Sodium Chloride, USP §	0.166	g			
Sterile water for injection, USP §	90.0	mL	1		
Sterile water for injection, USP §	100.0	mL			
Citric Acid 10% Solution §	As required				
Sodium Hydroxide 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 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. In the given order, sequentially add the following ingredients to the Sterile Water for Injection (90.0 mL plus processing error adjustments). -Benzyl Alcohol -Dexamethasone Sodium Phosphate -Sodium Metabisulfite -Sodium Citrate -Sodium Chloride Specifications: Continuously mix until all solid particles have completely dissolved. End result: Homogeneous liquid-like solution. Note: Add the next ingredient, once the previous one has been completely added and dissolved.



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	ggested FormulaDexamethasone Sodium Phosphate 11.0 mg/mL Injection (Solution, 100 mL)FINF 004 798
3.	pH testing:
	A. Draw an appropriate amount of the mixture (Step 2A).
	B. Test the pH of the sample. It should lie between 7.0 and 8.5.
	C. If the pH < 7.0, carefully add in a dropwise manner the Sodium Hydroxide 10% solution to the mixture:
	<ol> <li>Draw and transfer 1 or 2 drops of the Sodium Hydroxide 10% solution to the mixture.</li> <li>Stir for at least 5 minutes to evenly disperse the Sodium Hydroxide 10% solution.</li> <li>Re-test the pH.</li> <li>Continue to add the Sodium Hydroxide 10% solution until the pH of 7.0 to 8.5 is obtained.</li> </ol>
	IMPORTANT: Do not allow the pH to rise above 8.5.
	D. If the $pH > 8.5$ , carefully add in a dropwise manner the Citric Acid 10% solution to the mixture:
	<ol> <li>Draw and transfer 1 or 2 drops of the Citric Acid 10% solution to the mixture.</li> <li>Stir for at least 5 minutes to evenly disperse the Citric Acid 10% solution.</li> <li>Re-test the pH.</li> <li>Continue to add the Citric Acid 10% solution until the pH of 7.0 to 8.5 is obtained.</li> </ol>
	IMPORTANT: Do not allow the pH to fall below 7.0.
4.	Filling to volume:
	A. Add additional Sterile water for injection to the above mixture to fill to the required batch size (100.0 mL <i>plus</i> processing error adjustments).
	Specification: Continuously mix
	End result: Homogeneous liquid-like solution
5.	Filtering and transferring:
	Aseptically filter the solution through a $0.22$ - $\mu$ m 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.
6.	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.
7.	Sterility testing:
	Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.



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	Suggested Formula	Dexar	nethasone Sodium Phosphate 11.0	mg/mL Injec	tion (	Solution, 100 mL)	FIN	F 004 798		
SUC	GESTED P	RESE	NTATION							
			14 days, refrigerated.							
	Estimated Beyond-Use Date		BUD based on a successful sterility and endotoxin test result.	Packaging Requirements						
	1		Use as directed. Do not exceed dose.	d prescribed	6	Keep refrigerated. Do not freeze.		tant injections fore use. itioner if any r medications prescribed for		
		2	Keep out of reach of children.		7	Equilibrate to room temperature before		re use.		
	Auxiliary Labels		Discard container after use.			Consult your health care practitioner if any prescription or over-the-counter medication are currently being used or are prescribed for future use.				
		4	Discard in the presence of matter.	particulate	9	Do not use if discolored.				
		5	Protect from light.		10	Keep in a dry place.				
	Pharmacis Instructions		Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.							
	Patier Instruction	$\sim$ $C_{C}$	ontact your pharmacist in the event	of adverse re	actior	15.				



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