

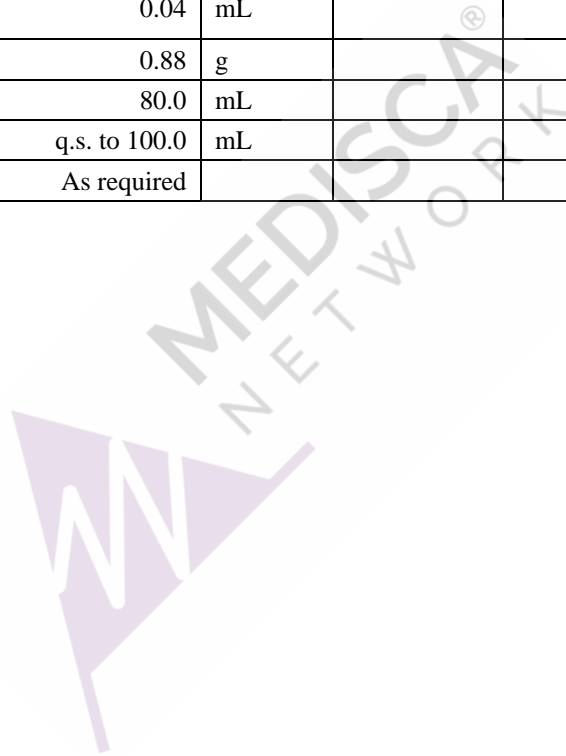


Suggested Formula	Dexamethasone Sodium Phosphate 1.1 mg/mL Injection (Solution, 100 mL)	FIN	F 007 098v2
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Note: Dexamethasone Sodium Phosphate 1.1 mg/mL is equivalent to Dexamethasone Phosphate 1 mg/mL.

SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Dexamethasone Sodium Phosphate, USP	TBD					
Sodium Metabisulfite, NF	0.100	g				
Benzalkonium Chloride Solution (50%), NF	0.04	mL				
Sodium Chloride, USP	0.88	g				
Sterile Water for Injection, USP	80.0	mL				
Sterile Water for Injection, USP	q.s. to 100.0	mL				
Sodium Hydroxide 10% Solution	As required					





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SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Light sensitive (protect from light whenever possible):	Sodium Metabisulfite, Benzalkonium Chloride Solution
Hygroscopic (protect from moisture whenever possible):	Dexamethasone Sodium Phosphate, Benzalkonium Chloride Solution
Air sensitive (protect from air whenever possible):	Benzalkonium Chloride Solution. Sodium Metabisulfite
Metal reactive (do not allow to come into contact):	Benzalkonium Chloride Solution
Heat Sensitive (protect from heat whenever possible):	Dexamethasone Sodium Phosphate
Moisture sensitive (protect from humidity whenever possible):	Sodium Metabisulfite

Suggested Preparatory Guidelines

Non-Sterile Preparation Sterile Preparation

Processing Error / Testing Considerations: To account for processing error, pH testing, sterility and endotoxin testing considerations during preparation, it is suggested to measure an additional **5 to 9%** of the required quantities of ingredients.

Special Instruction: This formula must be prepared within the appropriate facilities under adequate environmental conditions, following the necessary guidelines and procedures as stated within *USP 797*. 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.

Every batch of final product compounded using this procedure must be sterility and endotoxin tested before being dispensed.

Protective apparel, such as a sterile gown, sterile gloves, shoe covers, head cap, eyewear and face-masks should always be worn. In addition, proper personnel 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 ingredients. All calculations and preparation techniques must be verified before dispensing the final product.



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SUGGESTED PREPARATION (for 100 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*): ____	Processing Error	Qty. to measure
Dexamethasone Sodium Phosphate, USP §	TBD				
Sodium Metabisulfite, NF §	0.100	g			
Benzalkonium Chloride Solution (50%), NF §	0.04	mL			
Sodium Chloride, USP §	0.88	g			
Sterile Water for Injection, USP §	80.0	mL			
Sterile Water for Injection, USP §	q.s. to 100.0	mL			
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.	<u>Equipment sterilization:</u> Following the manufacturer's specifications, sterilize and depyrogenate all heat stable, reusable materials and equipment, then return to ambient temperature.
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2. **Ingredient quantification:**

A. Determine the potency of Dexamethasone Sodium Phosphate based on the certificate of analysis:

	100%
MINUS	
The Sum of Water content and Alcohol content (from certificate of analysis)	_____ %
DIVIDED BY	100
EQUALS	
Quantity of water-free and alcohol-free Dexamethasone Sodium Phosphate, in decimal	_____
MULTIPLIED BY	
Assay on Water-free and Alcohol-free basis result (from certificate of analysis)	_____ %
DIVIDED BY	100
EQUALS	
i. Potency of Dexamethasone Sodium Phosphate, in decimal	_____



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3. **Ingredient quantification:**

- A. Determine the quantity (in g) of Dexamethasone Sodium Phosphate required to make a 1.1 mg/mL injection batch size (100 mL):

Quantity of Dexamethasone Sodium Phosphate needed for the batch	0.110 g
DIVIDED BY	
Potency of Dexamethasone Sodium Phosphate, in decimal (Step 2Ai)	_____
EQUALS	
i. Quantity of Dexamethasone Sodium Phosphate needed for the batch	_____ g
MULTIPLIED BY	
Processing error adjustments (5 to 9%)	1.05 to 1.09
EQUALS	
ii. Quantity of Dexamethasone Sodium Phosphate needed plus processing error adjustments	_____ g

4. **Powder-liquid preparation:**

- A. In the given order, sequentially add the following ingredients to the Sterile Water for Injection (80.0 mL *plus* processing error adjustments):

- Sodium Chloride
- Dexamethasone Sodium Phosphate (amount determined in Step 3Aii)
- Benzalkonium Chloride Solution (50%)
- Sodium Metabisulfite

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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5.	<p><u>pH testing:</u></p> <p>A. Draw an appropriate amount of the mixture (Step 4B).</p> <p>B. Test the pH of the sample. It should lie between 7.0 and 8.0.</p> <p>C. <u>If the pH < 7.0, carefully add, in a dropwise fashion, the Sodium Hydroxide 10% Solution to the mixture:</u></p> <ol style="list-style-type: none">1. Draw and transfer 1 or 2 drops of the Sodium Hydroxide 10% Solution to the mixture.2. Stir for at least 5 minutes to evenly disperse the Sodium Hydroxide 10% Solution.3. Re-test the pH.4. Continue to add the Sodium Hydroxide 10% Solution until the pH of 7.0 and 8.0 is obtained. <p>IMPORTANT: Do not allow the pH to rise above 8.0.</p>		
6.	<p><u>Filling to volume:</u></p> <p>A. Add additional Sterile Water for Injection to the mixture (Step 5) to fill to the required batch size (100.0 mL <i>plus</i> processing error adjustments).</p> <p><u>Specifications:</u> Continuously mix.</p> <p><u>End result:</u> Homogeneous liquid-like solution.</p>		
7.	<p><u>Filtering and transferring:</u></p> <p>Aseptically filter the solution through a 0.22-μm sterile filter into the recommended dispensing containers (see Packaging requirements). Transfer the remainder into separate dispensing containers. These are to be used as the Test samples for sterility and endotoxins testing.</p>		
8.	<p><u>Filter integrity test:</u></p> <p>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.</p>		
9.	<p><u>Sterility testing:</u></p> <p>Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.</p>		



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SUGGESTED PRESENTATION

Estimated Beyond-Use Date	14 days, refrigerated, as per USP. BUD based on a successful sterility and endotoxin test result.	Packaging Requirements	Sterile, tightly closed, light-resistant unit dose injection vials.	
Auxiliary Labels	1	Use as directed. Do not exceed prescribed dose.	7	Keep refrigerated. Do not freeze.
	2	Keep out of reach of children.	8	Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.
	3	Do not use if product changes color.	9	For injection use only.
	4	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.	10	Protect from light.
	5	Discard in the presence of particulate matter.	11	Cap tightly after use.
	6	For veterinary (equine) use only.	12	Equilibrate to room temperature before use.
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.			



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