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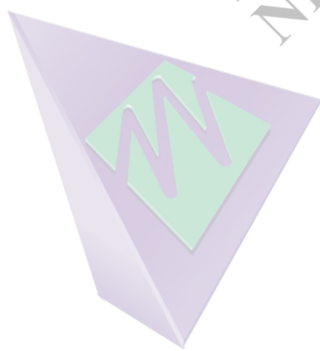
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TMP 045

Suggested Formula	Atropine Sulfate 2% Subcutaneous Injection (Solution, 5 mL)	FIN	F 001 580
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Atropine Sulfate, USP	0.100	g				
Benzyl Alcohol, NF	0.1	mL				
Sodium Chloride, USP	0.02	g				
Sterile Water For Injection, USP	4.0	mL				
Sterile Water For Injection, USP	q.s. to 5.0	mL				
Sulfuric Acid 10% Solution	As required					
Sodium Hydroxide 10% Solution	As required					

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SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Light sensitive (protect from light whenever possible): Atropine Sulfate, Benzyl Alcohol

Oxygen sensitive (protect from air whenever possible): Atropine Sulfate

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 **25% to 30%** 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 Formula	Atropine Sulfate 2% Subcutaneous Injection (Solution, 5 mL)	FIN	F 001 580
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SUGGESTED PREPARATION (for 5 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*): ____	Processing Error	Qty. to measure
Atropine Sulfate, USP §	0.100	g			
Benzyl Alcohol, NF §	0.1	mL			
Sodium Chloride, USP §	0.02	g			
Sterile Water For Injection, USP §	4.0	mL			
Sterile Water For Injection, USP §	q.s. to 5.0	mL			
Sulfuric 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.	<u>Equipment sterilization:</u> Following the manufacturer's specifications, sterilize and depyrogenate all heat stable, reusable materials and equipment, then return to ambient temperature.
2.	<u>Powder-liquid preparation:</u> A. Combine and triturate the following ingredients together to form a fine, homogeneous powder blend. - Atropine Sulfate - Sodium Chloride B. Levigate the fine, homogeneous powder blend (Step 2A) with the following ingredient: - Benzyl Alcohol <u>End result:</u> Homogeneous paste-like dispersion.

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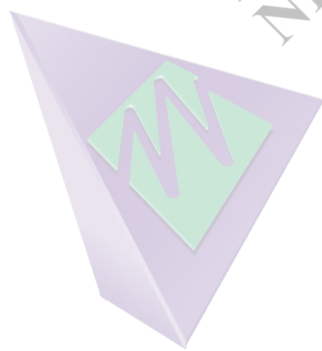
Suggested Formula	Atropine Sulfate 2% Subcutaneous Injection (Solution, 5 mL)	FIN	F 001 580
3.	<u>Powder-liquid to medium integration:</u> A. Incrementally add the homogeneous paste-like dispersion (Step 2B) to the following ingredient: - Sterile Water For Injection (4.0 mL <i>plus</i> processing error adjustments) <u>Specifications:</u> Continuously mix until all solid particles have completely dissolved. <u>End result:</u> Homogeneous liquid-like solution.		
4.	<u>pH testing:</u> A. Draw an appropriate amount of the mixture (Step 3A). B. Test the pH of the sample. It should lie between 3.0 and 6.5. C. <u>If the pH < 3.0, carefully add in a dropwise manner the Sodium Hydroxide 10% Solution to the mixture:</u> 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 3.0 to 6.5 is obtained. IMPORTANT: Do not allow the pH to rise above 6.5. D. <u>If the pH > 6.5, carefully add in a dropwise manner the Sulfuric Acid 10% Solution to the mixture:</u> 1. Draw and transfer 1 or 2 drops of the Sulfuric Acid 10% Solution to the mixture. 2. Stir for at least 5 minutes to evenly disperse the Sulfuric Acid 10% Solution. 3. Re-test the pH. 4. Continue to add the Sulfuric Acid 10% Solution until the pH of 3.0 to 6.5 is obtained. IMPORTANT: Do not allow the pH to fall below 3.0.		
5.	<u>Filling to volume:</u> A. Add additional Sterile Water For Injection to the above mixture to fill to the required batch size (5.0 mL <i>plus</i> processing error adjustments). <u>Specifications:</u> Continuously mix. <u>End result:</u> Homogeneous liquid-like solution.		

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6	<u>Filtering and transferring:</u> Aseptically filter the solution through a 0.22- μ 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.		
7	<u>Filter integrity test:</u> 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.		
8	<u>Sterility testing:</u> Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.		

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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	Sterile, light-resistant, multiple dose injection vials.	
Auxiliary Labels	1	Use as directed. Do not exceed prescribed dose.	6	Discard container after use.
	2	Keep out of reach of children.	7	Protect from light.
	3	For equine use only.	8	Keep refrigerated. Do not freeze.
	4	Do not use if discolored.	9	Discard in the presence of particulate matter.
	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	<p>Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.</p> <p>IMPORTANT: Using proper aseptic techniques, one must dilute the Atropine Sulfate to the appropriate concentrations with Sodium Chloride Injection (0.9%) prior to intravenous injection. Also it must be administered accordingly as determined by the prescribing veterinarian.</p> <p><u>NOTE:</u> Once diluted it must be used immediately and any unused portion must be discarded.</p>			
Patient Instructions	Contact your pharmacist in the event of adverse reactions.			

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