

TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

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Suggested Formula	Alprostadil 40 mcg/mL Intrapenile Injection (Solution, 10 mL)	FIN	F 001 676v4
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC#	Supplier	Lot Number	Expiry Date
Alprostadil 0.1% Stock Solution	0.40	mL				
Sterile Water for Injection, USP	9.60	mL				
† Alprostadil 0.1% Stock Solution						
Alprostadil (Prostaglandin E1), USP	0.100	g	(A)			
Propylene Glycol, USP	50.0	mL				
Polyethylene Glycol 300, NF	50.0	mL		. 1		

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Light Sensitive (protect from light whenever possible): Propylene Glycol, Alprostadil

Hygroscopic (protect from moisture whenever possible):

Propylene Glycol, Alprostadil, Polyethylene Glycol

300

Heat Sensitive (protect from excessive heat whenever possible): Alprostadil



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SPE

CIAL PREPARATORY CONSI	DERATIONS (CONTINUED)
Suggested Preparatory Guidelines	
Non-Sterile Preparat	ion Sterile Preparation
Processing Error / Testing Considerations:	To account for processing error, 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: https://www.usp.org/compounding/general-chapter-hazardous-drugs-handling-healthcare .
	This formula must be prepared within the appropriate facilities under adequate environmental conditions, following the necessary guidelines and procedures as stated within <i>USP 797</i> and <i>USP 800</i> 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

This procedure requires the use of very small quantities of ingredients. All calculations and preparation techniques must be verified before dispensing the final product.

including but not limited to the Code of Federal Regulations (CFR), Guidance for

Industry (GFIs) and Compliance Policy Guides (CPGs).



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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
Alprostadil 0.1% Stock Solution §	0.40	mL			
Sterile Water for Injection, USP §	9.60	mL			
			©		
† Alprostadil 0.1% Stock Solution					
Alprostadil (Prostaglandin E1), USP §	0.100	g	ノナ		
Propylene Glycol, USP §	50.0	mL	P		
Polyethylene Glycol 300, NF §	50.0	mL	O		

- * 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.	† Alprostadil 0.1% Stock Solution preparation: A. Combine and mix the following ingredients together: -Alprostadil (Prostaglandin E ₁) -Propylene Glycol -Polyethylene Glycol 300 Specifications: Continuously mix until all solid particles have completely dissolved. End result: Homogeneous liquid-like solution.
3.	Liquid preparation: A. Incrementally add the Alprostadil 0.1% Stock Solution (0.40 mL plus processing error adjustments) to the Sterile Water for Injection. Specifications: Continuously mix. End result: Homogeneous liquid-like solution.



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4.	Filtering and transferring:							
	Aseptically filter the solution through a 0.22-µm 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.							
5.	Filter integrity test:							
	Validate filter integrity by performing a filter stress test. If the test demonstrates that the solution must be discarded and remade.	ilter mig	tht be defective, the					
6.	Terminal Sterilization:							
	In relation to the chemical composition of the formulation, final packaging, etc., selection sterilization method and follow the manufacturer's specification.	and va	lidate an end-stage					

7. **Sterility and Endotoxin testing:**

Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.



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SUGGESTED PRESENTATION

U	GESTED PRE	:5E	NIATION				
	Estimated Beyond-Use Date		24 hours controlled room temperature, 3 days refrigerated, or 45 days frozen, as per USP 797. BUD based on successful endotoxin test result.	Packa, Requirem		Sterile, light-resistant unit-dose injection vials.	
		1	Use as directed. Do not exceed p dose.	prescribed	7	Keep at controlled room temperature, (20°C – 25°C), refrigerated (2°C – 8°C) or frozen (-25°C to -10°C).	
		2	Keep out of reach of children.		8	Discard container after use.	
	3 Protect from light.			9	Equilibrate to room temperature before use.		
	Auxiliary Labels	4	Discard in the presence of particulate matter.		10	Consult your health care practitioner if any other prescription or over-the-counter medications are currently being used or are prescribed for future use.	
		5	May impair mental and/or physica Use care when operating a car or m		11	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.	
		6	Do not use if discolored.				
	Pharmacist Instructions	Δdd any auviliary labels specific to the ΔPI to the dispensing container as deemed necessary					
	Patient Instructions	Co	Contact your pharmacist in the event of adverse reactions.				



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REFERENCES

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