

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

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	Penicillin G Potassium 40 000 000 IU per 100 mL vial for Injection (Powder blend for reconstitution, 1 vial)	FIN	F 003 325v2
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC#	Supplier	Lot Number	Expiry Date
Penicillin G Potassium, USP	TBD					
Sodium Citrate (Dihydrate), USP	0.50	g				
Sterile Water for Injection, USP	80.0	mL				
Sterile Water for Injection, USP	q.s. to 100.0	mL				

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

Hygroscopic (protect from moisture whenever possible):

Penicillin G Potassium



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	Formula	(Powder blend for rec	onstitution, 1 vial)	FIN	F 003 325v2
E			DERATIONS (CONTINUED)		
	Suggested 1	Preparatory Guidelines			
		Non-Sterile Preparat	ion Sterile Preparation		
		ocessing Error / esting Considerations:	To account for processing error, sterility and endotoxin testin preparation, it is suggested to measure an additional 5 to 9% of ingredients.		
	<u>S</u> p	ecial Instruction:	This formula may contain one or more Active Pharmaceutical I may be classified as hazardous, please refer & verify the curren Antineoplastic and Other Hazardous Drugs in Healthcare Settin General Chapter <800> Hazardous Drugs – Handling in He informational and not compendially applicable unless otherwise and enforcement bodies. For information on the scope, intended implementation context for USP General Chapter <800>, see: https://www.usp.org/compounding/general-chapter-hazardous-healthcare .	nt NIOS ngs. At ealthca e specif d applic	SH list of this time, are Settings is fied by regulators cability, and
			This formula must be prepared within the appropriate facilities environmental conditions, following the necessary guidelines a within <i>USP 797</i> and <i>USP 800</i> when handling hazardous drugs. qualified personnel must prepare this formula.	nd prod	cedures as stated
			All heat stable, reusable materials and equipment must be steril by dry heat sterilization at 250°C for 2 hours prior to use.	ized an	nd depyrogenated
			Compounder needs to verify as per USP, if every batch of final using this procedure must be sterility and endotoxin tested before		
			All required personal protective equipment (sterile and hazardo as but not limited to, gowns, aprons, sleeves, gloves both inner shoe covers, hairnet, head cap, beard cover, eyewear, appropria and face shield, etc., where applicable must be worn at all times personnel cleansing must be done before entering the buffer or	and ou te face s. In ad	tter if applicable, mask, respirator ldition, proper
			If applicable, follow all required procedures for hazardous drug not limited to procurement, transport, storage, preparation, disp clean up (spills) & disposal.		
ı					

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 including but not limited to the Code of Federal Regulations (CFR), Guidance for Industry (GFIs) and Compliance Policy Guides (CPGs).

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 1 vial)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*):	Processing Error	Qty. to measure
Penicillin G Potassium, USP §	TBD				
Sodium Citrate (Dihydrate), USP §	0.50	g			
Sterile Water for Injection, USP §	80.0	mL	©		
Sterile Water for Injection, USP §	q.s. to 100.0	mL			

- * Takes into account increased batch size conversions and density conversions, if required.
- § Weigh / measure just prior to use.



MEDISCA® NETWORK INC. TECHNICAL SUPPORT SERVICES FORMULATION CHEMISTRY DEPARTMENT

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	ggested ormula	Penicillin G Potassium 40 000 000 IU per 100 mL vial for Injection (Powder blend for reconstitution, 1 vial)	FIN	F 003 325v2
		Preparatory Instruction IMPORTANTE: All preparatory procedures whether preferred prime records and a size of the second prime records and the second prime records are second prime records and the second prime records a	4: T.	.h
1.	Equi	IMPORTANT: All preparatory procedures must be performed using proper Asep pment sterilization:	uc rec	ennique
		owing the manufacturer's specifications, sterilize and depyrogenate all heat stable, reusab oment, then return to ambient temperature.	le mat	erials and
2.	Ingr	edient quantification:		
	A. I	Determine the quantity (in g) of Penicillin G Potassium required for the entire batch (1 vi	al):	
	(Quantity of Penicillin G Potassium (in Units) required for 100 mL	40,000	0,000 U
	I	DIVIDED BY		
	1	Penicillin G Potassium assay result, dried basis (from Certificate of Analysis)		U/mg
	I	EQUALS		
	i	. Quantity of Penicillin G Potassium (in milligrams) required for 100 mL		mg
	1	MULTIPLIED BY		
	1	Multiplication factor – milligrams to grams	0.0	001
	I	EQUALS		
	i	i. Quantity of Penicillin G Potassium (in grams) required for 100 mL		g
	1	MULTIPLIED BY		
	I	Processing error adjustments (5 to 9%)	1.05 to	1.09
	I	EQUALS		
	i	ii. Quantity of Penicillin G Potassium needed plus processing error adjustments		g
3.	Pow	der Preparation:		
	A. (Combine and mix the following ingredients together to form a homogeneous powder bler	nd:	
		Penicillin G Potassium (amount determined in Step 2Aiii) Sodium Citrate (Dihydrate)		



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4.	Powder to medium incorporation:		
	A. Incrementally add the homogeneous powder blend (Step 3A) to the Sterile Water for Inje processing error adjustments)	ction (80.0 mL <i>plus</i>
	Specifications: Continuously mix until all solid particles have completely dissolved.		
	End result: Homogeneous liquid-like solution.		
5.	Filling to Volume:		
	A. Add additional Sterile Water for Injection to the mixture (Step 4A) to fill to the required processing error adjustments).	batch s	size (100.0 mL plus
	Specifications: Continuously mix.		
	End result: Homogeneous liquid-like solution.		
6.	Filtering and transferring:		
	Aseptically filter the 100 mL solution through a 0.22-µm sterile filter into single unit dose (1 suitable for lyophilization (see Packaging requirements). Transfer the remainder into a separate vial suitable for lyophilization. This is to be used as the Test sample for sterility and endotoxi	e single	e unit dose injection
7.	Filter integrity test:		
	Validate filter integrity by performing a filter stress test. If the test demonstrates that the filter solution must be discarded and remade.	· might	be defective, the
8.	Lyophilization:		
	A. Freeze-dry the sterile liquid, and seal the single unit dose injection vials, following the interest the Lyophilizer manufacturer.	structio	ons indicated by
	B. Remove the samples from the machine and store appropriately.		
9.	Terminal Sterilization:		
	In relation to the chemical composition of the formulation, final packaging, etc., select a sterilization method and follow the manufacturer's specification.	nd val	lidate an end-stage
10.	Sterility and Endotoxin testing:		
	Validate the freeze-dried Test sample for sterility and endotoxins, in accordance to cur guidelines.	rent U	SP 797 regulatory



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SUGGESTED PRESENTATION

IGGESTED PRI	ESE	NTATION				
Estima Beyond-Use D		24 hours controlled room temperature, 3 days refrigerated, or 45 days frozen, as per USP 797. BUD based on successful endotoxin test result.			Sterile, unit-dose (100 mL size) injection vials suitable for lyophilization.	
	1	Use as directed. Do not exceed prescribed dose.			Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.	
	2	Keep out of reach of children.		7	Discard container after use.	
Auxiliary Labels	3	Keep at controlled room temper – 25°C), refrigerated (2°C – 8°C) (-25°C to -10°C).		8	Hypertonic, use in the infusion liquid only.	
	4	Discard in the presence of partic	ulate matter.	9	Do not use if discolored.	
	5	Equilibrate to room temperature before use.				
Pharmacist Instructions	Re All Pri for (B)	constitution Procedure: low vial to warm to room temper ior to use, reconstitute using app Injection, USP to reconstitute t UD: 1 hour, once reconstituted a	rature before propriate ase the powder b	e reco ptic to lend (igerat	echnique, each vial with 100 mL of Sterile Water 40 000 000 units/100 mL).	
Patient Instructions	Contact your pharmacist in the event of adverse reactions.					



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2.	Penicillin G Potassium. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations, 2nd Edition.</i> American Pharmaceutical Association; 2000: 287.
3.	Penicillin G Potassium (Monograph). <i>United States Pharmacopeia XXXI / National Formulary 26</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2008.
4.	USP <797>. United States Pharmacopeia XXXI / National Formulary 26. Rockville, MD. US Pharmacopeial Convention, Inc. 2008.

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