

# 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	Fentanyl 5 µg/mL Epidural Injection (Solution, 10 mL)	FIN	F 003 771
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## SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Fentanyl 50 µg/mL Injection (Sterile, Preservative Free) **	1.00	mL				
Sodium Chloride 0.9% for Injection, USP (Sterile, Preservative Free)	9.0	mL				

# \*\*Delivered as Fentanyl Citrate

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CIAL PREPARATORY CONSI	DERATIONS
Ingredient-Specific Information	
<b>Controlled substance</b> (adhere t documentation procedures)	o proper handling and Fentanyl Citrate
Light sensitive (protect from lig	ght whenever possible): Fentanyl Citrate
Suggested Preparatory Guidelines	
Non-Sterile Preparat	ion Sterile Preparation
<u>Processing Error /</u> <u>Testing Considerations</u> :	To account for processing error, sterility and endotoxin testing considerations during preparation, it is suggested to measure an additional 15 to $20\%$ 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 <i>USP 797</i> . 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 10 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor <sup>(*)</sup> :	Processing Error	Qty. to measure
Fentanyl 50 µg/mL Injection (Sterile, Preservative Free) §	1.00	mL			
Sodium Chloride 0.9% for Injection, USP (Sterile, Preservative Free) §	9.0	mL			

\* 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.	Medium integration:
	Note: All manipulations must be done under a laminar airflow hood. Disinfect the commercial vials with Alcohol 70% prior to withdrawing the required amount of liquid.
	<ul> <li>A. Incrementally add the Fentanyl 50 μg/mL Injection (Sterile, Preservative Free) to the Sodium Chloride 0.9% for Injection (Sterile, Preservative Free):</li> </ul>
	Specifications: Continuously mix.
	End result: Homogeneous liquid-like solution.
3.	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.
4.	Sterility testing:
	Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.



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GESTED P	RES	ENTATION			-		
		14 days, refrigerated.					
Estimated Beyond-Use Date		DUD Dascu on a succession	Packa Requirem		Sterile, tight, light-resistant unit dose injection vials.		
	1	Use as directed. Do not exceed dose.	d prescribed	8	For medical office use only.		
	2	Keep out of reach of children.		9	Protect from light.		
	3	Keep refrigerated. Do not freeze		10	0 Controlled substance. Dangerous unless directed.		
Auxiliar	4	Do not take with alcohol, sleep a tranquilizers or other CNS depre		10	May produce psychologica dependence.	l and	or physic
Label		May impair mental and/or physic Use care when operating a car or machinery.		12	Do not used if product changes	s color.	
	6	Consult your health care practitie other prescription or over-the-co medications are currently being prescribed for future use.	unter	13	Preservative free solution, sin Discard any unused portion.		e only.
	7	Discard container after use.	S,	14	Discard in the presence of part	ciculate	matter.
Pharmacis Instruction	st a	Add any auxiliary labels specific to the active ingredients to the dispensing container as deemed necessary. IMPORTANT: TO BE ADMINISTERED ONLY BY THE PRESCRIBING PHYSICIAN.					
Patien Instruction	C	Contact your pharmacist in the event of adverse reactions.					



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### REFERENCES

1.	USP <797>. United States Pharmacopeia XXXII / National Formulary 27. Rockville, MD. US Pharmacopeial Convention, Inc. 2009: 318.
2.	Parenteral Preparations. In: Allen, LV, Jr. <i>The Art, Science and Technology of Pharmaceutical Compounding Third Edition</i> . American Pharmaceutical Association; 2008: 313.
3.	Fentanyl Citrate. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 34<sup>th</sup> Edition</i> . London, England: The Pharmaceutical Press; 2005: 40.
4.	Fentanyl (Monograph). In: O'Neil MJ. <i>The Merck Index 14<sup>th</sup> Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2006: Monograph #4001.
5.	Fentanyl Citrate. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations, 3<sup>rd</sup> Edition</i> . American Pharmaceutical Association; 2005: 172.
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