



Suggested Formula	Epinephrine 10 mcg/mL Intravenous Injection (Solution, 10 mL)	FIN	F 004 337
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## SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Epinephrine 0.5 mg/mL Injection (sterile)	0.20	mL				
Sodium Chloride 0.9% for Injection, USP (sterile)	9.8	mL				

## SPECIAL PREPARATORY CONSIDERATIONS

### Ingredient-Specific Information

**Light sensitive** (protect from light whenever possible):

*Epinephrine*

### Suggested Preparatory Guidelines

Non-Sterile Preparation     Sterile Preparation

#### Processing Error /

#### Testing Considerations:

#### Special Instruction:

To account for processing error considerations during preparation, it is suggested to measure an additional **0 to 0%** of the required quantities of ingredients.

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 10 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*): ____	Processing Error	Qty. to measure
Epinephrine 0.5 mg/mL Injection (sterile) §	0.20	mL			
Sodium Chloride 0.9% for Injection, USP (sterile) §	9.8	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.	<b><u>Equipment sterilization:</u></b> Following the manufacturer's specifications, sterilize and depyrogenate all heat stable, reusable materials and equipment, then return to ambient temperature.
2.	<b><u>Medium integration:</u></b> <b>Note:</b> 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. A. Incrementally add the Epinephrine 0.5 mg/mL Injection (sterile) to the Sodium Chloride 0.9% for Injection. <b>Specifications:</b> Continuously mix. <b>End result:</b> Homogeneous liquid-like solution.
3.	<b><u>Filtering and transferring:</u></b> Aseptically filter the solution through a 0.22- $\mu$ 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.
4.	<b><u>Filter integrity test:</u></b> 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.



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### SUGGESTED PRESENTATION

Estimated Beyond-Use Date	14 days, refrigerated.	Packaging Requirements	Sterile, tight, light-resistant unit-dose injection vials.	
Auxiliary Labels	1	Use as directed. Do not exceed prescribed dose.	6	Do not used if product changes color.
	2	Keep out of reach of children.	7	Protect from light.
	3	Keep refrigerated. Do not freeze.	8	Discard container after use.
	4	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.	9	May impair mental and/or physical ability. Use care when operating a car or machinery.
	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.	10	For medical office use only.
Pharmacist Instructions	Add any auxiliary labels specific to the active ingredients to the dispensing container as deemed necessary. <b>IMPORTANT: TO BE ADMINISTERED ONLY BY THE PRESCRIBING PHYSICIAN.</b>			
Patient Instructions	Contact your pharmacist in the event of adverse reactions.			

### REFERENCES

1.	USP <797>. <i>United States Pharmacopeia XXXII / National Formulary 27</i> . 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.	Epinephrine (Monograph). In: O'Neil MJ. <i>The Merck Index 14<sup>th</sup> Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2006: Monograph #3619.
4.	Epinephrine. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations, 3<sup>rd</sup> Edition</i> . American Pharmaceutical Association; 2005: 159.
5.	Epinephrine. <i>United States Pharmacopeia XXXII / National Formulary 27</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2009: 2260.

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