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Suggested Formula	Amoxicillin 250 mg / 5 mL Oral Liquid (Suspension, 100 mL)	FIN	F 000 338v3
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Amoxicillin (Trihydrate), USP	TBD					
Xanthan Gum, NF	0.20	g				
Methylparaben, NF	0.15	g				
Glycerin, USP	5.0	mL				
Sorbitol Solution (70%), NF	30.0	mL				
Raspberry Flavor	1.0	mL	8			
Orange Flavor	1.0	mL				
Purified Water, USP	50.0	mL		Y		
Purified Water, USP	q.s. to 100.0	mL	.6	2		
Sodium Hydroxide 1 N Solution	As needed			•		

SPE

ECIAL PREPARATORY CONSI	DERATIONS	4
Ingredient-Specific Information		7.
Hygroscopic (protect from mo	isture whenever possible):	Sorbitol Solution, Glycerin
Plastic Reactive / Adsorbent (a	do not allow to come into contact):	Methylparaben
Light Sensitive (protect from li	ight whenever possible):	Amoxicillin
Suggested Preparatory Guidelines		
Non-Sterile Preparat	tion Sterile Preparation	
<u>Processing Error /</u> <u>Testing Considerations</u> :		pH testing considerations during preparation, it is to 9% of the required quantities of ingredients.
Special Instruction:	Protective apparel, such as a lab coat should always be worn.	, disposable gloves, eyewear and face-masks
		ery small quantities of ingredients. All calculations verified before dispensing the final product.



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SUGGESTED PREPARATION (for 100 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor ^(*) :	Processing Error	Qty. to measure
Amoxicillin (Trihydrate), USP §	TBD				
Xanthan Gum, NF	0.20	g			
Methylparaben, NF §	0.15	g	Q		
Glycerin, USP §	5.0	mL	N		
Sorbitol Solution (70%), NF §	30.0	mL	XL		
Raspberry Flavor	1.0	mL	4		
Orange Flavor	1.0	mL	O Ì		
Purified Water, USP	50.0	mL			
Purified Water, USP	q.s. to 100.0	mL			
Sodium Hydroxide 1 N Solution	As needed				

* Takes into account increased batch size conversions and density conversions, if required.

§ Weigh / measure just prior to use.



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	Formula Amoxicillin 250 mg / 5 mL Oral Liquid (Suspension, 100 mL)		FIN	F 000 338v3
		Preparatory Instruction		
1.	Ingre	edient quantification:		
	A. E	Determine the potency of Amoxicillin (Trihydrate) based on the certificate of analysis:		
			100	1%
	N	AINUS		
	V	Vater Content (from certificate of analysis)		%
	Γ	DIVIDED BY	100	1
	E	QUALS		
	C	Quantity of water free Amoxicillin (Trihydrate), in decimal		
	N	IULTIPLIED BY		
	A	assay on anhydrous basis result (from certificate of analysis)		⊥µg/mg
	N	IULTIPLIED BY (Multiplication factor $-\mu g$ to grams /mg to grams)	0.0	01
	E	QUALS		
	i.	Potency of Amoxicillin (Trihydrate) in g/g		



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	ggested ormula	Amoxicillin 250 mg / 5 mL Oral Liquid (Suspension, 100 mL)	FIN	F 000 338v3				
2.	 Ingredient quantification: A. Determine the quantity (in g) of Amoxicillin (Trihydrate) to make a 100 mL batch of Amoxicillin 250 m Oral Liquid: 							
		Quantity of Amoxicillin required for 100 mL		5.000 g				
		Potency of Amoxicillin (Trihydrate), in decimal (Step 1Ai)	_					
		. Quantity of Amoxicillin (Trihydrate) needed for 100 mL MULTIPLIED BY	-	g				
		Processing error adjustments (5 to 9%): EQUALS	1	.05 to 1.09				
	i	i. Quantity of Amoxicillin (Trihydrate) needed <i>plus</i> processing error adjustments		g				
3.		der-liquid preparation: Combine and triturate the following ingredients together to form a fine, homogeneous pow	wder b	lend:				
	-	Amoxicillin (Trihydrate) (amount determined in step 2Aii) Xanthan Gum Methylparaben						
		Levigate the fine, homogeneous powder blend with the Glycerin. End result: Homogeneous paste-like dispersion.						



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-	gested ormulaAmoxicillin 250 mg / 5 mL Oral Liquid (Suspension, 100 mL)FINF 000 338v3						
4.	Liquid preparation:						
	A. Incrementally add the following ingredients to the Purified Water (50.0 mL <i>plus</i> processing error adjustments):						
	-Sorbitol Solution (70%) -Raspberry Flavor						
	-Orange Flavor						
	Specifications: Continuously mix.						
	End result: Homogeneous liquid-like solution.						
5.	Powder-Liquid integration:						
	A. Incrementally add the homogeneous paste-like dispersion (Step 3B) to the homogeneous liquid-like solution (Step 4A).						
	Specifications: Continuously mix, using high-shear mixing techniques.						
	End result: Homogeneous liquid-like dispersion.						
6.	pH testing:						
	A. Draw an appropriate amount of the mixture (Step 5A).						
	B. Test the pH of the sample. It should lie between 5.1 and 6.1.						
	C. If the pH < 5.1, carefully add, in a dropwise fashion, the Sodium Hydroxide 1 N Solution to the mixture:						
	 Draw and transfer 1 or 2 drops of the Sodium Hydroxide 1 N Solution to the mixture. Stir for at least 5 minutes to evenly disperse the Sodium Hydroxide 1 N Solution. 						
	 Re-test the pH. Continue to add the Sodium Hydroxide 1 N Solution until the pH of 5.1 to 6.1 is obtained. 						
	IMPORTANT: Do not allow the pH to rise above 6.1.						
7.	Filling to volume:						
	A. Add additional Purified Water to the above mixture to fill to the required batch size (100.0 mL <i>plus</i> processing error adjustments).						
	Specifications: Continuously mix, using high-shear mixing techniques.						
	End result: Homogeneous liquid-like dispersion.						



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Product transfer:

8.

Transfer the final product into the specified dispensing container (see "Packaging requirements").

<u>Note</u>: Continuously mix the final product during the transfer process into the recommended dispensing containers in order to maintain homogeneity.

SUGGESTED PRESENTATION

Estima Beyond-Use D		14 days, refrigerated, as per USP.	Packag Requirem		 Tightly closed, light-resistant dispensing bottle. To be administered with a metered-dose measuring device.
	1	Use as directed. Do not exceed dose.	prescribed	6	May impair mental and/or physical ability. Use care when operating a car or machinery.
	2	Do not take with alcohol, stranquilizers or other CNS depres		7	Do not use if irreversible caking or sedimentation occurs.
Auxiliary Labels				8	Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.
	4	Shake well before use.		9	Keep out of reach of children.
	5	Cap tightly after use.		10	Protect from light.
Pharmacist Instructions Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.					ensing container as deemed necessary.
Patient Instructions If allergic reactions occur, consult your pharmacist.					

REFERENCES

1.	Amoxicillin (Monograph). In: O'Neil MJ. <i>The Merck Index 13th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2001: 96.
2.	USP <795>. United States Pharmacopeia XXVIII / National Formulary 23. Rockville, MD. US Pharmacopeial Convention, Inc. 2004: 2457.
3.	Amoxicillin. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations</i> , 2 nd Edition. American Pharmaceutical Association; 2000: 19.

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