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	Naltrexone Hydrochloride 4.5 mg Oral Transmucosal Films (Solid Suspension, 30 Films)	FIN	F 009 673
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SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Naltrexone Hydrochloride, USP	TBD					
Bitterness Reducing Agent (NF-01) (Natural) (Powder)	0.25	g				
Cellulose (Microcrystalline), NF	1.065	g				
Menthol (Crystals) (Levorotatory) (Natural), USP	0.06	g	Ŕ			
Sucralose, NF	0.045	g	1			
Purified Water, USP	8.0	mL				
NovaFilm™ Gel Base	18.00	g		Y		
Purified Water, USP	q.s. to 30.0	mL	5	-		
		4				



Suggested Naltrex Formula Films)	one Hydrochlor	ride 4	.5 mg Oral Transmucosal Films	(Solid Suspension, 30	FIN	F 009 673
SPECIAL PREPARAT		DERA	TIONS			
Ingredient-Specific	<u>Information</u>					
Hygroscopic (pr	otect from moist	ture v	whenever possible):	Naltrexone Hydrochlorid	de, Cel	lulose
Light Sensitive (protect from lig	ght wh	henever possible):	Naltrexone Hydrochlorid Base	de, Nov	vaFilm™ Gel
Suggested Preparate	ory Guidelines					
Non-S	Sterile Preparatio	on	Sterile Preparation	•		
Processing Testing Co			ccount for processing error consure an additional 12 to 15% of t			
Special Ins		may Antin Gene infor and c imple https healt This envir within quali All r limit dedica and f If ap not li clear If yoo inclu Indus This	formula may contain one or more be classified as hazardous, pleas neoplastic and Other Hazardous eral Chapter <800> Hazardous emational and not compendially a enforcement bodies. For informa ementation context for USP Gen :://www.usp.org/compounding/gen hcare. formula must be prepared within ronmental conditions, following in USP 795 and USP 800, when ified personnel must prepare this equired personal protective equip ed to, lab coat, protective sleeves cated shoe covers, hairnet, beard face shield, etc., where applicable plicable, follow all required proc imited to procurement, transport, n up (spills) & disposal. u are a registered 503B facility, juding but not limited to the Code stry (GFIs) and Compliance Poli procedure requires the use of ve preparation techniques must be v	e refer & verify the currer Drugs in Healthcare Settin s Drugs – Handling in He applicable unless otherwis tion on the scope, intende eral Chapter <800>, see: eneral-chapter-hazardous- n the appropriate facilities the necessary guidelines a handling hazardous drugs formula. pment (hazardous if applie s, gloves both inner and of cover, eyewear, appropria e must be worn at all time cedures for hazardous drug , storage, preparation, disp please refer to all relevant of Federal Regulations (C cy Guides (CPGs). ry small quantities of ingr	nt NIO ngs. At ealthca e speci d appli drugs- under ind pro . Only cable), uter if a ate face s. g handl bensing cFR), C edients	SH list of this time, are Settings is fied by regulators cability, and <u>handling-</u> adequate cedures as stated trained and such as but not applicable, e mask, respirator ing including but g, administration, the documents Guidance for s. All calculations



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SUGGESTED PREPARATION (for 30 Films)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor ^(*) :	Processing Error	Qty. to measure
Naltrexone Hydrochloride, USP §	TBD				
Bitterness Reducing Agent (NF-01) (Natural) (Powder)	0.25	g			
Cellulose (Microcrystalline), NF §	1.065	g 🕟			
Menthol (Crystals) (Levorotatory) (Natural), USP	0.06	g			
Sucralose, NF	0.045	g	L		
Purified Water, USP	8.0	mL	2		
NovaFilm™ Gel Base §	18.00	g			
Purified Water, USP	q.s. to 30.0	mL			

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

§ Weigh / measure just prior to use.

Preparatory Instruction

1. Preparatory Step:

A. Preheat an appropriate convection oven.

Specifications: Temperature: 50°C.



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	edient quantification: Determine the potency of Naltrexone Hydrochloride based on the certificate of analysis:		
N	/INUS		100%
E	Vater and alcoholic solvents content (from certificate of analysis)	-	%
Ν	Quantity of water and alcoholic solvents free Naltrexone Hydrochloride, in decimal AULTIPLIED BY Assay on anhydrous, solvent free basis (from certificate of analysis)	-	
E	DIVIDED BY EQUALS	_	100
	Potency of Naltrexone Hydrochloride, in decimal	_	



	ggested ormula	Naltrexone Hydrochloride 4.5 mg Oral Transmucosal Films (Solid Suspension, 30 Films)	FIN	F 009 673
3.	A. 1	edient quantification: Determine the quantity (in g) of Naltrexone Hydrochloride required to make 30 Films of Hydrochloride 4.5 mg:	Naltre	xone
	(Quantity of Naltrexone Hydrochloride required for 30 Films		0.135 g
	1	DIVIDED BY		
	1	Potency of Naltrexone Hydrochloride, in decimal (Step 2Ai)	-	
]]]	EQUALS		
	i	. Quantity of Naltrexone Hydrochloride needed for 30 Films	-	g
	1	MULTIPLIED BY		
]]	Processing error adjustments (12 to 15%)	1	.12 to 1.15
	1	EQUALS		
	i	i. Quantity of Naltrexone Hydrochloride needed <i>plus</i> processing error adjustments	_	g
4.	Pow	der-liquid preparation:		
		By geometric addition, combine and triturate the following ingredients together to form a bowder blend:	fine, ł	nomogeneous
	-	Naltrexone Hydrochloride (amount determined from Step 3Aii) Bitterness Reducing Agent (NF-01) (Natural) (Powder) Cellulose (Microcrystalline) Menthol (Crystals) (Levorotatory) (Natural) Sucralose		
		Levigate the fine, homogeneous powder blend (Step 4A) with the Purified Water (8.0 mL adjustments).	. plus p	processing error
	<u>]</u>	End result: Homogeneous liquid-like dispersion.		



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5.	Medium incorporation:						
	A. Incrementally add the homogeneous liquid-like dispersion (Step 4B) to the NovaFilm [™] Gel Base.						
	2	pecifications: Continuously mix, using high-shear mixing techniques.					
	<u>1</u>	<u>NOTE</u> : Ensure mixing process does not incorporate any air.					
	Ī	and result: Homogeneous gel-like dispersion.					
6.	<u>Fillir</u>	ig to volume:					
		Add additional Purified Water to the mixture (Step 5A) to fill to the required batch size (a rror adjustments).	30.0 m	L plus processing			
	<u>S</u>	pecifications: Continuously mix, using high-shear mixing techniques.					
	<u>1</u>	<u>NOTE</u>: Ensure mixing process does not incorporate any air.					
	Ī	End result: Homogeneous gel-like dispersion.					
7.	Mola	I filling and heating:					
		Till the 30 blister mold cavities with 1.00 mL of the homogeneous gel-like dispersion (St the homogeneous gel-like dispersion in the cavity to a uniform thickness.	ep 6A)	per cavity. Spread			
	<u>1</u>	NOTE: Ensure no air bubbles are added to the mold cavities.					
	B. I	Heat the filled blister molds to 50°C for 60 to 90 minutes in the preheated convection over	en. Do	not overheat.			
	2	pecifications: Homogeneous solid dispersion.					
8.	Cool	ing:					
	A. (Carefully remove the blister mold from the heated oven.					
		Allow the films to cool for an additional 15- 30 minutes in the blister molds at controlled umidity.	l temp	erature and relative			
9.	<u>Valio</u>	lation technique:					
	A. V	Veigh 6 films separately.					
	r	The final weight of each film from Step 9A (not including the weight of blister mold) shall of more than 110% of the theoretically calculated weight in accordance to USP guidalculated weight can be determined by adding the following values: 0.154 g + (Step 3Ai	delines				



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10. Product transfer:

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

SUGGESTED PRESENTATION

Estimated Beyond-Use Date 180 days, controlled room temperature or refrigerator, as per USP 795*. Package Requirement					Manually lock blister molds and put into light- resistant resealable foil pouch.	
	1	Use as directed. Do not exceed dose.	l prescribed	6	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.	
	2	Keep out of reach of children.).	7	Keep at controlled room temperature ($20^{\circ}C - 25^{\circ}C$) OR keep refrigerated ($2^{\circ}C - 8^{\circ}C$). Do not freeze.	
Auxiliary Labels	3	Keep in a dry place.	\sim	8	Protect from light.	
Labers	4	May impair mental and/or phys Use care when operating a car or		9	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	Discard container after use.		10	May produce psychological and/or physical dependence.	
Pharmacist Instructions	Add any auxiliary labels specific to the API to the dispensing container as deemed necessary					
Patient Instructions	Contact your pharmacist in the event of adverse reactions					

* If the API or any other components in the CNSP have an expiration date that is earlier than the assigned BUD, the expiration date supersedes the assigned BUD and must be the assigned shortest date.



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