

11/23/2015; Page 1

	Tryptophan 200 mg Oral Rapid-Dissolve Tablets (Solid Suspension, 96 × 750 mg [0.93 mL] Tablets)	FIN	F 006 493v2
--	---	-----	-------------

SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Tryptophan, USP	19.200	g				
Raspberry Flavor (Powder)	0.50	g				
Stevia Powder (Stevioside)	0.20	g				
Bitterness Reducing Agent (NF01) Natural (Powder)	0.50	g				
Medi-RDT Base	TBD		Ŕ)		

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Sr	pecific 1	Information
---------------	-----------	-------------

Light sensitive (protect from light whenever possible):

Hygroscopic (protect from moisture whenever possible):

T	ryptop	han

Medi-RDT Base, Stevia Powder

Suggested Preparatory Guidelines

Non-Sterile Preparat	ion Sterile Preparation
<u>Processing Error /</u> <u>Testing Considerations</u> :	To account for processing errors and considerations during preparation, it is suggested to measure an additional 5 to 9% of the required quantities of ingredients.
Special Instruction:	Protective apparel, such as a lab coat, disposable gloves, eyewear and face-masks should always be worn.
	This procedure requires the use of very small quantities of ingredients. All calculations and preparation techniques must be verified before dispensing the final product.
	IMPORTANT : This procedure involves heating the tablet mold at temperatures reaching 110°C. Ensure that your molds are able to withstand this temperature.



11/23/2015; Page 2

	Tryptophan 200 mg Oral Rapid-Dissolve Tablets (Solid Suspension, 96×750 mg [0.93 mL] Tablets)	FIN	F 006 493v2	
--	--	-----	-------------	--

SUGGESTED PREPARATION (for 96 Tablets)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor ^(*) :	Processing Error	Qty. to measure
Tryptophan, USP §	19.200	g			
Raspberry Flavor (Powder)	0.50	g			
Stevia Powder (Stevioside) §	0.20	g			
Bitterness Reducing Agent (NF01) Natural (Powder)	0.50	gj	8		
Medi-RDT Base §	TBD				

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

§ Weigh / measure just prior to use.

Preparatory Instruction

1. Mold calibration:

Determine the required quantity of Medi-RDT Base for 96 tablets based on the actual size of the tablet mold being used. Refer to the Appendix for details.

2. **Powder preparation:**

- A. Pass the Medi-RDT Base through a 40 or 50 mesh sieve and weigh the required quantity (amount calculated in Appendix Step 6Aiii).
- B. By geometric addition, combine and triturate the following ingredients together to form a homogeneous powder blend:

-Tryptophan -Raspberry Flavor (Powder) -Stevia Powder (Stevioside) -Bitterness Reducing Agent (NF01) Natural (Powder)

C. By geometric addition, combine and mix (DO NOT TRITURATE) the following ingredients together to form a homogeneous powder blend:

-Sieved Medi-RDT Base (Step 2A) -Homogeneous powder blend (Step 2B)

Note: Do not use excessive force as Medi-RDT Base should not be triturated.

D. Prior to filling the tablet mold cavities, pass the homogeneous powder blend (Step 2C) through a 40 or 50 mesh sieve to improve flow properties and obtain content uniformity.



11/23/2015; Page 3

	gested	Tryptophan 200 mg Oral Rapid-Dissolve Tablets (Solid Suspension, 96 × 750 mg [0.93 mL] Tablets)	FIN	F 006 493v2				
3.	3. Mold filling and heating:							
	С	Fill the 96 tablet mold cavities by tapping and pressing the homogeneous powder be avities using the upper part of the mold. Repeat at least three times to ensure the cavitie ecessary, add additional powder blend.						
	B. (Gently heat the powder blend to $105^{\circ}C - 110^{\circ}C$ for $10 - 15$ minutes. Do not overheat.						
	<u>s</u>	Epecifications: Heat by placing the filled mold (base cavity plate only) in an appropriate $105^{\circ}C - 110^{\circ}C$.	e oven,	preheated to				
	Ē	End Result: Homogeneous solid dispersion.						
4.	<u>Cool</u>	ing:						
	A. (Carefully remove the tablet mold from the heated oven, using a hot hand protector.						
		mmediately remove the tablets by flipping over the mold onto a piece of wax or ointmen apping the mold with a mini mallet.	t pape	r and gently				
	1	Note: Hold the tablet mold in place while tapping to avoid shaking and breaking the table	ts.					
	C. A	Allow the tablets to cool for an additional 30 minutes at controlled temperature and relative	ve hun	nidity.				
5.	<u>Valio</u>	lation technique:						
	A. V	Veigh 20 tablets separately.						
		The final weight of each tablet from Step 5A (not including the weight of the tablet mold) nd 110% of the theoretically calculated weight (Appendix, Step 5B), in accordance to U						
6.	Prod	uct transfer:						
	Trans	sfer the final product into the specified dispensing container (see "Packaging Requirement	nts").					



11/23/2015; Page 4

	Tryptophan 200 mg Oral Rapid-Dissolve Tablets (Solid Suspension, 96×750 mg [0.93 mL] Tablets)	FIN	F 006 493v2
--	--	-----	-------------

SUGGESTED PRESENTATION

Estimated Beyond-Use Date			6 months, as per USP*.	Packaging Requirements				
		1	Use as directed. Do not exceed dose.	prescribed	5	Discard container after use.		
			Keep out of reach of children.		6	Keep at room temperature $(20^{\circ}C - 23^{\circ}C)$.		
	ixiliary Labels				7	Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.		
			4	Protect from light.		8	May impair mental and/or physical ability. Use care when operating a car or machinery.	
	Add any auxiliary labels specific to the API to the dispensing container as deemed necessary.							
Patient InstructionsContact your pharmacist in the event of adverse reactions.					ons.			

* The BUD is not later than the time remaining until the earliest expiration date of any API or 6 months, whichever is earlier.

REFERENCES

1.	Tablets. In: Allen, LV, Jr. <i>The Art, Science and Technology of Pharmaceutical Compounding Fourth Edition</i> . American Pharmaceutical Association; 2012: 175.
2.	Tryptophan. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference, 36th Edition</i> . London, England: The Pharmaceutical Press; 2009: 427.
3.	Tryptophan. In: O'Neil MJ. <i>The Merck Index 15th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2013: Monograph #9977.
4.	Tryptophan (Monograph). United States Pharmacopeia XXXVIII / National Formulary 33. Rockville, MD. US Pharmacopeial Convention, Inc. 2015: 5710.
5.	USP <795>. United States Pharmacopeia XXXVIII / National Formulary 33. Rockville, MD. US Pharmacopeial Convention, Inc. 2015: 559.

DISCLAIMER: MEDISCA NETWORK INC., HEREBY REFERRED TO AS 'THE NETWORK', HAS PROVIDED THE FORMULA AND INSTRUCTIONS ABOVE AS A MODEL FOR EDUCATIONAL PURPOSES ONLY ON THE BASIS OF THE RECOGNIZED COMPENDIA AND TEXTS REFERENCED AT THE END OF THIS DOCUMENT. THE NETWORK TAKES NO RESPONSIBILITY FOR THE VALIDITY OR ACCURACY OF THIS INFORMATION OR FOR ITS SAFETY OR EFFECTIVENESS, NOR FOR ANY USE THEREOF, WHICH IS AT THE SOLE RISK OF THE LICENSED PHARMACIST. ADJUSTMENTS MAY BE NEEDED TO MEET SPECIFIC PATIENT NEEDS AND IN ACCORDANCE WITH A LICENSED PRESCRIBER'S PRESCRIPTION. THE PHARMACIST MUST EMPLOY APPROPRIATE TESTS TO DETERMINE THE STABILITY OF THIS SUGGESTED FORMULA. THE NETWORK CANNOT BE HELD LIABLE TO ANY PERSON OR ENTITY CONCERNING CLAIMS, LOSS, OR DAMAGE CAUSED BY, OR ALLEGED TO BE CAUSED BY, DIRECTLY OF INDIRECTLY, THE USE OR MISUSE OF THE INFORMATION CONTAINED IN THIS SUGGESTED FORMULA. IN ALL CASES IT IS THE RESPONSIBILITY OF THE LICENSED PHARMACIST TO KNOW THE LAW, TO COMPOUND ANY FINISHED PRODUCT AND TO DISPENSE THESE PRODUCTS IN ACCORDANCE WITH FEDERAL AND STATE LAW.



11/23/2015; Page 1

Appendix Tablet mold calibration

SUGGESTED CALCULATION

	Preparatory Instruction							
1.	API weighing:							
	A. Pass the Medi-RDT Base through a 40 or 50 mesh sieve.							
	B. Weigh and / or measure the following ingredients:							
	Ingredient Quantity							
	Tryptophan, USP 2.00 g							
	Medi-RDT Base 7.08 g							
	Notes: Measure the exact amount specified. Do not consider processing error for calibration step. Data within this calibration table are based on a 0.93 mL mold size.							
2.	Powder preparation: A. By geometric addition, combine and mix (DO NOT TRITURATE) the following ingredients together to form a homogeneous powder blend: -Tryptophan -Medi-RDT Base Note: Do not use excessive force as Medi-RDT Base should not be triturated.							
3.	 Mold filling and heating: A. Fill 5 tablet mold cavities by tapping and pressing the homogeneous powder blend (Step 2A) into the cavities using the upper part of the mold. Repeat at least three times to ensure the cavities are completely filled. If necessary, add additional powder blend. B. Gently heat the powder blend to 105°C – 110°C for 10 – 15 minutes. Do not overheat. Specifications: Heat by placing the filled mold (base cavity plate only) in an appropriate oven, preheated to 105°C – 110°C. End Result: Homogeneous solid dispersion. 							



11/23/2015; Page 2

Appendix Tablet mold calibration							
4.	Cooling:						
	А.	Carefully remove the tablet mold from the heated oven, using a hot hand protector.					
	 B. Immediately remove the tablets by flipping over the mold onto a piece of wax or ointment paper and tapping the mold with a mini mallet. 						
	Note: Hold the tablet mold in place while tapping to avoid shaking and breaking the tablets.						
	C.	Allow the tablets to cool for an additional 30 minutes at controlled temperature and relative humidity.					
5.	Ca	Calculate the average tablet weight:					
	A.	Weigh the five tablets and record the total weight here (not including the weight of the empty tablet mold):					
	B.	Calculate the average tablet weight:					
		Combined weight of the tablets (from Step 5A) g					
		DIVIDED BY					
		Number of Tablets 5					
		EQUALS					
		Average (theoretical) tablet weight*					
		*Note: The weight of the Rapid-Dissolving Tablets is mainly affected by factors such as compression force, flow properties of the powder mixture (flow properties will vary depending on the Active Pharmaceutical Ingredient(s) and excipients in the formulation) and particle size distribution. The mixture must be sieved prior to filling.					
	The expected average weight of RDT's are as follows (data based on various experiments/troubleshooting completed in the past):						
		$750 \text{mg} \pm 30 \text{mg} (720 \text{mg} - 780 \text{mg})$ $200 \text{mg} \pm 10 \text{mg} (190 \text{mg} - 210 \text{mg})$ $150 \text{mg} \pm 7.5 \text{mg} (142.5 \text{mg} - 157.5 \text{mg})$ $75 \text{mg} \pm 5 \text{mg} (70 \text{mg} - 80 \text{mg})$					



11/23/2015; Page 3

Appendix		Tablet mold calibration					
6.	Ingre	Ingredient calculation:					
	A. C	alculate the quantity of excipient blend required for 96 tablets:					
	A	verage tablet weight (from Step 5B)		g			
	N	IINUS					
	Q	Quantity (in g) of Tryptophan and other ingredients per tablet		0.2125 g			
	E	QUALS					
	i.	Quantity of Medi-RDT Base required per tablet	_	g			
	N	IULTIPLIED BY					
	N	lumber of tablets required		96			
	E	QUALS					
	ii	. Total quantity of Medi-RDT Base required for 96 tablets	_	g			
	N	IULTIPLIED BY					
	P	rocessing error adjustments (5 to 9%)	1	.05 to 1.09			
	E	QUALS					
	ii	i. Total quantity of Medi-RDT Base required <i>plus</i> processing error adjustments	_	g			

DISCLAIMER: MEDISCA NETWORK INC., HEREBY REFERRED TO AS 'THE NETWORK', HAS PROVIDED THE FORMULA AND INSTRUCTIONS ABOVE AS A MODEL FOR EDUCATIONAL PURPOSES ONLY ON THE BASIS OF THE RECOGNIZED COMPENDIA AND TEXTS REFERENCED AT THE END OF THIS DOCUMENT. THE NETWORK TAKES NO RESPONSIBILITY FOR THE VALIDITY OR ACCURACY OF THIS INFORMATION OR FOR ITS SAFETY OR EFFECTIVENESS, NOR FOR ANY USE THEREOF, WHICH IS AT THE SOLE RISK OF THE LICENSED PHARMACIST. ADJUSTMENTS MAY BE NEEDED TO MEET SPECIFIC PATIENT NEEDS AND IN ACCORDANCE WITH A LICENSED PRESCRIBER'S PRESCRIPTION. THE PHARMACIST MUST EMPLOY APPROPRIATE TESTS TO DETERMINE THE STABILITY OF THIS SUGGESTED FORMULA. THE NETWORK CANNOT BE HELD LIABLE TO ANY PERSON OR ENTITY CONCERNING CLAIMS, LOSS, OR DAMAGE CAUSED BY, OR ALLEGED TO BE CAUSED BY, DIRECTLY OR INDIRECTLY, THE USE OR MISUSE OF THE INFORMATION CONTAINED IN THIS SUGGESTED FORMULA. IN ALL CASES IT IS THE RESPONSIBILITY OF THE LICENSED PHARMACIST TO KNOW THE LAW, TO COMPOUND ANY FINISHED PRODUCT AND TO DISPENSE THESE PRODUCTS IN ACCORDANCE WITH FEDERAL AND STATE LAW.