

TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

7/10/2016; Page 1

	Nifedipine 32.5 mg Rectal Suppositories (Solid Suspension, 30 × 7.0 mL Suppositories)	FIN	F 005 869v2
--	---	-----	-------------

SUGGESTED FORMULATION

Ingredient Listing	Qty.	Unit	NDC #	Supplier	Lot Number	Expiry Date
Nifedipine, USP	0.975	g				
Silica Gel (Micronized)	0.75	g				
Medisca SPG Supposi-Base TM	192.62	g				

SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information		©
Light sensitive (protect from lig	ght whenever possible):	Nifedipine
Hygroscopic (protect from moi	sture whenever possible):	Silica Gel
Suggested Preparatory Guidelines		
Non-Sterile Preparat	ion Sterile Preparation	7
<u>Processing Error /</u> <u>Testing Considerations</u> :		considerations during preparation, it is suggested to f the required quantities of ingredients.
Special Instruction:	Protective apparel, such as a lab of should always be worn.	coat, disposable gloves, eyewear and face-masks
		f very small quantities of ingredients. All calculations be verified before dispensing the final product.



TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

7/10/2016; Page 2

F 1	Nifedipine 32.5 mg Rectal Suppositories (Solid Suspension, 30 × 7.0 mL Suppositories)	FIN	F 005 869v2
-----	---	-----	-------------

SUGGESTED PREPARATION (for 30 x 7.0 mL Suppositories)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*):	Processing Error	Qty. to measure
Nifedipine, USP §	0.975	g			
Silica Gel (Micronized) §	0.75	g			
Medisca SPG Supposi-Base TM	192.62	g			

- * Takes into account increased batch size conversions and density conversions, if required.
- § Weigh / measure just prior to use.

	Preparatory Instruction
1.	Preparatory step:
	A. Prepare a hot water bath.
	Specifications: Temperature: 40 to 45°C.
2.	Mold lubrication:
	A. Lubricate all parts of the suppository mold with suitable vegetable spray and set aside.
	Note: Selected vegetable spray needs to be compatible with API(s) and all other ingredients within the formulation.
3.	Powder-liquid preparation:
	A. Combine and triturate the following ingredients together to form a fine, homogeneous powder blend: -Nifedipine -Silica Gel (Micronized)
4.	Medium preparation:
	A. Using the hot water bath, melt the SPG Supposi-Base TM .
	Specifications: Maintain temperature between 40°C and 45°C.
	End result: Homogeneous liquid-like solution.
	IMPORTANT: Do not allow the temperature to exceed 45°C.



TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

7/10/2016; Page 3

	Nifedipine 32.5 mg Rectal Suppositories (Solid Suspension, 30×7.0 mL Suppositories)	FIN	F 005 869v2
--	--	-----	-------------

5. **Medium integration:**

A. Using the hot water bath, incrementally add the fine, homogeneous powder blend (Step 3A) to the melted SPG Supposi-BaseTM (Step 4A).

<u>Specifications</u>: Continuously mix, using high-shear mixing techniques.

Maintain temperature between 40°C and 45°C.

End result: Homogeneous liquid-like dispersion.

6. Mold filling:

- A. Remove the mixture (Step 5A) from the heat. With continuous stirring, allow to cool slightly, until the mixture is thicker (with a lotion-like consistency).
- B. Fill the 30 mold cavities with the mixture. If the mixture starts to solidify, reheat to 40 45°C, and repeat the filling procedure.
- C. Once the cavities have been filled, allow the suppositories to cool to room temperature.
- D. If necessary, trim the tops of the suppositories with a sharp blade or a hot spatula.

7. Validation technique:

- A. Weigh 6 suppositories separately.
- B. The final weight of each suppository from Step 7A (not including the weight of the suppository mold) shall not be less than 90% and not more than 110% of the theoretically calculated weight 6.48 g in accordance to USP guidelines.

8. **Product transfer:**

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



TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

7/10/2016; Page 4

F 1	Nifedipine 32.5 mg Rectal Suppositories (Solid Suspension, 30 × 7.0 mL Suppositories)	FIN	F 005 869v2
-----	---	-----	-------------

SUGGESTED PRESENTATION

GGESTED FR		MIAHON			
Estima Beyond-Use D		6 months, refrigerated, as per USP*.	Packa Requiren		Individually wrapped in foil and placed in a tightly closed, light-resistant suppository box or widemouth container.
	1	Use as directed. Do not exceed dose.	l prescribed	7	Do not take with alcohol, sleep aids, tranquilizers or other CNS depressants.
	2	Keep out of reach of children.		8	Equilibrate to room temperature before use.
Auxiliary Labels	3	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.
	4	Protect from light.		10	Cap tightly after use.
	5	Keep in a dry place.		11	For rectal use only.
	6	Keep refrigerated. Do not freeze			
Pharmacist Instructions	Add any auxiliary labels specific to the active ingredient to the dispensing container as deemed necessar				t to the dispensing container as deemed necessary.
Patient Instructions	If a	allergic reactions occur, consult yo	our pharmacis	st.	

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



TELEPHONE: 514-905-5096 FAX: 514-905-5097 technicalservices@medisca.net

7/10/2016; Page 5

T 1	Nifedipine 32.5 mg Rectal Suppositories (Solid Suspension, 30×7.0 mL Suppositories)	FIN	F 005 869v2
-----	--	-----	-------------

REFERENCES

1.	Suppositories and Inserts. In: Allen, LV, Jr. <i>The Art, Science and Technology of Pharmaceutical Compounding Third Edition</i> . American Pharmaceutical Association; 2008: 165.
2.	Colloidal Silicon Dioxide. In: Rowe RC. <i>Handbook of Pharmaceutical Excipients</i> , 6 th Edition. American Pharmaceutical Association; 2009: 185.
3.	Nifedipine. In: Sweetman SC, ed. <i>Martindale: The Complete Drug Reference</i> , 36 th Edition. London, England: The Pharmaceutical Press; 2009: 1350.
4.	Nifedipine (Monograph). In: O'Neil MJ. <i>The Merck Index 14th Edition</i> . Whitehouse Station, NJ: Merck & Co, Inc.; 2006: Monograph #6528.
5.	Nifedipine. In: Trissel LA. <i>Trissel's Stability of Compounded Formulations, 4th Edition.</i> American Pharmaceutical Association; 2009: 406.
6.	Nifedipine (Monograph). <i>United States Pharmacopeia XXXVII / National Formulary 32</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2014: 3989.
7.	Nifedipine. Thomson Micromedex. <i>USP DI – Drug Information for the Health Care Professional</i> , 26 th Edition. Taunton, MA: US Pharmacopeial Convention, Inc; 2006: 734.
8.	USP <795>. <i>United States Pharmacopeia XXXVII / National Formulary 32</i> . Rockville, MD. US Pharmacopeial Convention, Inc. 2014: 403.

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.