MEDISCA® NETWORK INC.
TECHNICAL SUPPORT SERVICES
FORMULATION CHEMISTRY DEPARTMENT
TOLL-FREE: 866-333-7811
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Suggested Formula	Timolol Maleate 0.68% Ophthalmic Liquid (Solution, 20 mL)	FIN	F 000 095v2

Note: Timolol Maleate 0.68% is equivalent to Timolol 0.5%.

SUGGESTED FORMULATION

Ingredient Listing	Qty	Unit	NDC #	Supplier	Lot Number	Expiry Date
Timolol Maleate, USP	0.136	g				
Sodium Chloride, USP	0.16	g				
Sterile Water For Injection, USP	16.0	mL				
Sterile Water For Injection, USP	q.s. to 20.0	mL				
Sodium Hydroxide 5% Solution	As required					

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SPECIAL PREPARATORY CONSIDERATIONS

Ingredient-Specific Information

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

Suggested Preparatory Guidelines

☐ Non-Sterile Preparation ■ Sterile Preparation

Processing Error / Testing Considerations: To account for processing error, pH testing, sterility and endotoxin testing considerations during preparation, it is suggested to measure an additional **15 to 20%** of the required quantities of ingredients.

Special Instruction: 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 20 mL)

Weigh and / or measure the following ingredients when appropriate:

Ingredient Listing	Qty.	Unit	Multiplication factor (*): ____	Processing Error	Qty. to measure
Timolol Maleate, USP §	0.136	g			
Sodium Chloride, USP §	0.16	g			
Sterile Water For Injection, USP §	16.0	mL			
Sterile Water For Injection, USP §	q.s. to 20.0	mL			
Sodium Hydroxide 5% Solution §	As required				

* 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.	**Equipment sterilization:** Following the manufacturer's specifications, sterilize and depyrogenate all heat stable, reusable materials and equipment, then return to ambient temperature.
2.	**Medium preparation:** A. Incrementally add the Sodium Chloride to the following ingredient: - Sterile Water For Injection (16.0 mL *plus* processing error adjustments) Specifications: Continuously mix until all solid particles have completely dissolved. End result: Homogeneous liquid-like solution.

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3. **API to medium integration:**

A. Incrementally add the Timolol Maleate to the following ingredient:

- Homogeneous liquid-like solution (Step 2A)

Specifications: Continuously mix until all solid particles have completely dissolved.

End result: Homogeneous liquid-like solution.

4. **pH testing:**

A. Draw an appropriate amount of the mixture (Step 3A).

B. Test the pH of the sample. It should lie between 6.5 and 7.5.

C. If the pH < 6.5, carefully add in a dropwise manner the Sodium Hydroxide 5% Solution to the mixture:

1. Draw and transfer 1 or 2 drops of the Sodium Hydroxide 5% Solution to the mixture.
2. Stir for at least 5 minutes to evenly disperse the Sodium Hydroxide 5% Solution.
3. Re-test the pH.
4. Continue to add the Sodium Hydroxide 5% Solution until the pH of 6.5 to 7.5 is obtained.

IMPORTANT: Do not allow the pH to rise above 7.5.

5. **Filling to volume:**

A. Add additional Sterile Water For Injection to the above mixture to fill to the required batch size (20.0 mL *plus* processing error adjustments).

Specification: Continuously mix.

End result: Homogeneous liquid-like solution.

6. **Filtering and transferring:**

Aseptically filter the solution through a 0.22-µm 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.

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7.	**Filter integrity test:** 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.
8.	**Sterility testing:** Validate the Test sample for sterility and endotoxins, in accordance to current USP 797 regulatory guidelines.

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SUGGESTED PRESENTATION

Estimated Beyond-Use Date		14 days, refrigerated. BUD based on a successful sterility and endotoxin test result.	Packaging Requirements		Sterile, light-resistant eye dropper bottle.
Auxiliary Labels	1	Use as directed. Do not exceed prescribed dose.		7	Equilibrate to room temperature before use.
	2	Keep out of reach of children.		8	Cap tightly after use.
	3	**Do not allow the dropper tip to come into contact with the body or any type of surface in order to prevent contamination.**		9	For ophthalmic use only.
	4	**Consult your health care practitioner if any prescription or over-the-counter medications are currently being used or are prescribed for future use.**		10	Discard in the presence of particulate matter.
	5	Keep refrigerated. Do not freeze.		11	Do not use if discolored.
	6	Protect from light.			
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. **IMPORTANT:** The quantity of API administered is directly dependent on the quantity of product applied.				

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