

**SUGGESTED FORMULA**

Minoxidil 10% Topical Solution

Version number: 1.0

Volume: 100mL

Minoxidil, USP (M1138)	10gm
Alcohol 95%, USP (ET108)	25mL
Propylene Glycol, USP (PR130)	5mL
Sulfuric Acid 20% (W/V) Aqueous Solution	to dissolve
Purified Water, USP	Q.S. 100mL

Wear appropriate personal protective equipment.

This compound should be prepared in a USP Chapter <800> compliant containment primary engineering control (C-PEC).

SUGGESTED COMPOUNDING PROCEDURES

1. Accurately weigh and/or measure each ingredient
2. In a calibrated vessel w/ stir bar add Minoxidil, Propylene Glycol, Ethyl Alcohol and 30% of the final volume of Purified Water
3. Add Sulfuric Acid 20% (W/V) Aqueous Solution to Step#2 while spinning. Minoxidil will react with the Sulfuric Acid Solution and gradually dissolve. Be patient during this process and do not add too much of the Sulfuric Acid 20% Solution. Approximately 6-8mL of Sulfuric Acid 20% may be required to dissolve each 10gm of Minoxidil. Slowdown in adding Sulfuric Acid 20% Solution when the amount of undissolved solid reduces. Continue to add Sulfuric Acid 20% Solution drop wise while spinning allowing time for reaction after each addition until the solid is completely dissolved and solution becomes clear.
4. Bring Step#3 to volume with Purified Water and mix well. Final pH should be around 4.4
5. Package in light resistant, glass containers and label
6. Suggested quality assessments:
 - a. Clarity
 - b. Color
 - c. Label (s) - auxiliary labels (external use), storage, BUD

Protect from light.

Store in amber glass bottle

No claims are made as to the safety or efficacy of this preparation. This formulation is provided solely at the unsolicited request of the pharmacist.

Beyond-Use Dates of preparations are conservative estimates by the formulator using reference books, peer-reviewed literature, and intended duration of therapy, formulation from commercially available products, organoleptic observations and current USP guidelines. Compounders may have stability studies performed by a reputable laboratory if they wish to extend the Beyond-Use Date. It is recommended that you follow USP <795> recommendations for potency testing.

Beyond-Use Date should be assigned as directed by USP Chapter <795>

Precautions:

Precautions should be taken to prevent cross-contamination and exposure of ingredients to the compounder and contamination of the preparation by the compounder. Wear appropriate protective equipment. Use safety enclosures (hoods) when weighing and mixing.

Although much attention has been paid to ensure the accuracy of the formulation contained here, Spectrum Pharmacy Products accepts no liability for the loss or damage arising from reliance on the information. Compounding pharmacists using this formula take full responsibility for the formulations and hold Spectrum Pharmacy Products and Spectrum Chemical Mfg Corp. and its officers, directors and employees harmless for any claim arising from use of or reliance on information contained therein.

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