Propranolol HCl 2% Cream (Pentravan®)(BUD Study)

Total Formula Quantity

100 grams

Ingredients	Quantity	
Propranolol Hydrochloride USP	2 grams	
Diethylene Glycol Monoethyl Ether NF	5 grams	5.05 milliliters
Pentravan®	93 grams	

Ingredient Disclaimer

The density of Diethylene Glycol Monoethyl Ether is 0.991 g/mL

Method/Instructions

1. Calculate amount of ingredients needed.
2. Accurately weigh and measure each ingredient.
3. Combine API with Diethylene Glycol Monoethyl Ether to form a smooth paste.
4. Add Pentravan and mix thoroughly on Unguator for 2-3 minutes at a medium mixing speed or using Soft in Soft on the Unguator PRO.
5. Process through a three-roll ointment mill as desired and mix again.

Formulation Notes

- For optimal results this formulation should be compounded using mechanical mixing devices that ensure thorough mixing and produce high shearing forces (electronic mortar & pestle combined with processing through an ointment mill).

Equipment

FagronLab EMP

Supplies/Dispensers

Topi-Click

PPE Notes

Refer to USP <795> current guidelines for specific minimum garbing requirements. Gloves must be worn for all compounding activities. Additional garb may be necessary depending on the type of compounding performed and per the facility's SOP.

Storage

Controlled Room Temperature 20 to 25 °C | Protect from light | Store in a tightly closed container

BUD

180 days per study

AUX

This medication was specially compounded in our pharmacy for you at the direction of your prescriber.

References

1. Polonini H, Kegele C, Marianni B. Chemical and microbiological stability supporting extended BUDs in Pentravan Based Transdermal Preparations. IJPC. 2026; 30(2): 158-168
2. The ESTIMATED BEYOND-USE DATE is a physical stability estimate based on information from published references, medical and scientific literature, observed organoleptic stability, formulator practical experience and current USP guidelines. Please refer to USP Chapter <795> for additional information regarding appropriate Beyond-Use determination.

QC check section

Describe the appearance of the finished compound (color, odor, etc):

Compounded Active Pharmaceutical Ingredients match the original prescription document: Yes / No

Describe the closure container used for finished compound (Topiclick, etc.):

Quality control measures taken and results (pH measurements ,etc):

Visual inspection of compound within expectations: Yes / No

Container closure checked for and free of any leakage and/or cracks: Yes / No

Compounded preparation released for dispensing by (name):

Disclaimer

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Date last modified
05/01/2026