**Drug Name** | **Route** | **Dosage Form** | **Concentration**  
---|---|---|---
Promethazine | Transdermal | Gel | 25mg/mL  

**Formula Qty:** 50mL  
**Shelf Life:** 90 days

**Equipment needed:**  
Scale, beaker, graduate, stirring rod with spatula tip, amber plastic 3mL syringes with caps

**Auxiliary Labels/Storage:** For Topical Use Only; Room Temperature; Protect from Light

**Directions:**
1. Weigh out promethazine powder on a scale and place into a beaker.
2. Add ethoxy diglycol reagent. Stir to dissolve.
3. Add Lipoil™. Stir well.
4. Remove Polox™ 20% from the refrigerator. Weigh out and slowly add to beaker, mixing well with spatula after each addition.
5. Immediately draw up and cap 1mL doses of gel into amber plastic syringes.

**Notes:** Polox™ 20% Gel is a liquid when refrigerated but turns to gel quickly at room temperature. Store bulk gel refrigerated until immediately prior to use. If the final product thickens during preparation, refrigerate for 10-15 minutes (or until gel liquefies) and then continue drawing up 1mL doses. Overall yield of 30-40 syringes from a 50mL batch.

| **Ingredients** | **QS** | **Quantity** | **Units**  
---|---|---|---
Promethazine Hydrochloride Powder, USP | 1.25 | grams  
Ethoxy Diglycol Reagent | 5 | mL  
Lipoil™ | 12 | mL  
Polox™ gel 20% | 33 | mL

**Citations/References**
Nationwide Children’s Hospital Experience since 2009.  
Preckshot J. Formulation for Promethazine HCl 50mg/mL in PLO Gel. IJPC. 2001; (Jan/Feb): 1  
Reviewed: 4/6/2010 JEB

**Nationwide Children’s Hospital Disclaimer**  
The information provided on this site is for educational and informational purposes and may not be relied upon to direct or provide care to a patient. This material is not intended as a substitute for consulting health care professionals. The health care professionals remain solely responsible to provide and direct patient care. The information contained on this site may not be up to date due to more recent medical developments. The preparation, dispensing, and administration of pharmaceuticals is and remains the responsibility of licensed medical professional or pharmacist. Nationwide Children's Hospital assumes no liability for any injury and/or damage to persons from use of any information contained on this site.

700 Children’s Drive | Columbus, OH 43205