

Michigan Collaborative Standardization of Compounded Oral Liquids

Drug name: Propylthiouracil

Concentration: 5 mg/mL

Route: Oral

Volume: 120 mL

Dosage Form: Suspension

Shelf Life: 91 days

Storage: refrigerate

Auxiliary Labeling: shake well before use; refrigerate

| Ingredients | QS | Quantity | Units |
|--------------------------------|----|----------|--------|
| Propylthiouracil 50-mg tablets | | 12 | tablet |
| Ora-Sweet/Ora-Plus* | Y | 120 | mL |

Directions:

1. Triturate propylthiouracil tablets to a fine powder in a mortar and pestle.
2. Levigate with a small amount of base solution to form a paste.
3. Add base solution in increasing amounts while mixing thoroughly.
4. Transfer contents of the mortar to a graduated cylinder.
5. Rinse the mortar and pestle with base solution and pour into graduated cylinder.
6. Add base solution to the graduated cylinder to achieve the total volume indicated above.
7. Transfer contents of the graduated cylinder into an appropriate size plastic amber bottle.
8. Shake well to mix.

Notes:

- *Mix 60 mL of Ora-Sweet with 60 mL of Ora-Plus. Use mixture as base solution. Expiration date of 70 days when stored at room temperature. Shake well before use.
- Alternatives: May substitute base solution with 60 mL Methylcellulose 1% mixed with 60 mL Simple Syrup NF.

References:

- Nahata MC, Morosco RS, Trowbridge JM. Stability of propylthiouracil in extemporaneously prepared oral suspensions at 4 and 25°C. *Am J Health-Syst Pharm.* 2000;57:1141-1143.
- Jew RK et al. Extemporaneous Formulations for Pediatric, Geriatric, and Special Needs Patients. 2nd Ed. American Society of Health-System Pharmacists. Bethesda, MD, 2010.

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