

Michigan Collaborative Standardization of Compounded Oral Liquids

Drug name:	Pantoprazole	Dosage Form:	Solution
Concentration:	2 mg/mL	Shelf Life:	62 days
Route:	Oral	Storage:	Refrigerate
Volume:	120 mL	Auxiliary Labeling:	Shake well before use; refrigerate

Ingredients	QS	Quantity	Units
Pantoprazole 40-mg tablet		6	tablet
Sodium Bicarbonate powder		10.1	g
Sterile Water for Irrigation	Y	120	mL

Directions:

1. Remove imprint from tablets by gently rubbing on a paper towel dampened with ethanol.
2. Allow tablets to air dry for a few minutes.
3. Triturate tablets to a fine powder in a mortar and pestle.
4. Transfer the contents of the mortar to an appropriate size beaker.
5. Add 100 ml of Sterile Water for Irrigation and place the beaker on a magnetic stirrer.
6. Add 5 g of Sodium Bicarbonate powder and continue to stir for approximately 20 minutes until all tablet remnants have disintegrated and the coating has dissolved.
7. Add remaining Sodium Bicarbonate powder and stir for approximately 5 minutes until the powder dissolves.
8. Add enough Sterile Water for Irrigation to achieve the final volume indicated.
9. Transfer the solution into an appropriate size plastic amber bottle. Shake well to mix.

References:

- Dentinger PJ, Swenson CF, Anazi NH. Stability of pantoprazole in an extemporaneously compounded oral liquid. *Am J Health-Syst Pharm.* 2002;59:953-956.
- 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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