



**OMEPRAZOLE 2 mg/mL ORAL SUSPENSION**

Date Prepared: \_\_\_\_ / \_\_\_\_ / 20 \_\_\_\_

LOT: NS \_\_\_\_\_

Expiry Date: \_\_\_\_ / \_\_\_\_ / 20 \_\_\_\_

Final Checked By: \_\_\_\_\_

INGREDIENTS	MFR	LOT #	EXPIRY DATE	FORMULA QUANTITY	QUANTITY USED	PREPARED	CHECKED
Omeprazole 20 mg capsules	Apotex*			10 capsules			
Sodium Bicarbonate USP	Medisca			8.4 g			
Sterile Water for Irrigation	Baxter			QS to 100 mL			

**Risk Summary:**

***Always follow policies & procedures for risk assessment/NAPRA level as determined by your own pharmacy department.***

**Equipment and PPE:**

- Glass mortar and pestle
- Graduated cylinder
- Glass stirring rod
- Large glass beaker
- Magnetic stirrer
- Parafilm or Saran Wrap
- Standard CHEO Level B PPE (hair bonnet, mask, +/- beard cover, clean gown and nitrile gloves)

**Procedure:**

*Always follow departments training protocols and policies and procedures that are currently in place.*

**1. Make the Sodium Bicarbonate solution:**

- Dissolve sodium bicarbonate powder in the total volume of sterile water for irrigation. A magnetic stirrer is recommended.
  - Solution is ready when it is clear. Put aside.
2. Empty contents of omeprazole capsules into a mortar.
  3. Cover ½ of mortar with Saran Wrap/Parafilm.
  4. Put pestle in and slowly crush contents (takes about 10 minutes) to a very fine powder. The small granules will "jump", but the Saran Wrap will stop them from flying out. If a large quantity needs to be compounded, consider using a coffee grinder for this drug only.
  5. Add about 90% of sodium bicarbonate solution in the mortar.
  6. Let sit until powder is completely dissolved (about 15-20 minutes). The 15-20 minutes is needed to ensure that it is fully disintegrated.



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7. Transfer to a graduated cylinder.
8. Rinse out the mortar with sodium bicarbonate solution.
9. QS to final volume.
10. Stir well and transfer to amber GLASS bottle. Label bottle appropriately. Affix dispensing cap.
11. Before washing, rinse equipment into medication disposal bin, and not directly into sink.

**Quality Control:**

- Final Appearance: Light pink, foamy suspension. Turns darker pink over time
- Packaging: amber GLASS bottles
- Storage & BUD: 14 days refrigerated. Protect from light.
- NOTES:
  - *Apotex brand ONLY; insufficient evidence for any other brand available\**
  - Ensure product is well shaken before separating into smaller aliquots.
  - PVC plastic bottles may be used if necessary, but *do not use* PET.

**Sample Label:**

<p>Children's Hospital of Eastern Ontario <b>OMEPRAZOLE 2 mg/mL ORAL SUSPENSION</b> SHAKE WELL. REFRIGERATE. PROTECT FROM LIGHT. Quantity: LOT: Expiry:</p>
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**Reference(s):**

- Hospital for Sick Children Toronto Formulation, accessed jun 2021

**Formulation Review:**

**Master Sheet Revision Dates:** August 2016; may 2019- adjusted BUD, no preservative in base anymore; jan 2020 protect from light; jun 2021.