**Drug Name**: Glutamine  
**Route**: Oral  
**Dosage Form**: Suspension  
**Concentration**: 500mg/mL

**Formula Qty**: 60mL  
**Shelf Life**: 30 days

**Equipment needed**:  
Glass mortar and pestle, graduated cylinder, stirring rod, amber prescription bottle

**Auxiliary Labels/Storage**: Shake Well; Refrigerate  
No studies on room temperature storage.

**Directions**:  
1. Place glutamine in a clean glass mortar, triturate to a fine powder.  
2. In a graduate, combine the sterile water, Ora-Plus, and Ora-Sweet to make a 1:1:2 mixture.  
3. Wet powder with a minimal amount of liquid mixture and levigate to form a viscous, but smooth and uniform paste.  
4. Continue adding liquid mixture geometrically, mixing well after each addition, and rinse mortar with 1:1:2 mixture.  
5. Transfer suspension graduated cylinder, QS to final volume with 1:1:2 mixture. Mix well.

**Note**: If using glutamine packets: a 15gm packet contains 10gm of glutamine (Baxter or Cambridge)  
Base formula uses 3 packets or 30 grams of glutamine.

**Final Product Description**: Very thick, opaque, white suspension. No discernible smell.  
*This description is for exact products and manufacturers specified below and may vary with substitutions.*

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>QS</th>
<th>Quantity</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Glutamine Powder</td>
<td>30</td>
<td>Gm</td>
<td></td>
</tr>
<tr>
<td>Ora-Plus</td>
<td>15</td>
<td>mL</td>
<td></td>
</tr>
<tr>
<td>Ora-Sweet</td>
<td>30</td>
<td>mL</td>
<td></td>
</tr>
<tr>
<td>Sterile Water for Irrigation</td>
<td>15</td>
<td>mL</td>
<td></td>
</tr>
</tbody>
</table>

**Citations/References**  

Reviewed: 7/9/15 EAM

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