Michigan Collaborative Standardization of Compounded Oral Liquids

**Drug name:** Thioguanine  
**Concentration:** 20 mg/mL  
**Route:** Oral  
**Volume:** 30 mL

**Dosage Form:** Suspension  
**Shelf Life:** 84 days

**Storage:** Refrigerate (preferable) or at room temperature.  
**Auxiliary Labeling:** Shake well before use, refrigerate

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>QS</th>
<th>Quantity</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thioguanine 40-mg tablet</td>
<td></td>
<td>15</td>
<td>tablet</td>
</tr>
<tr>
<td>Methylcellulose solution 1%</td>
<td></td>
<td>10</td>
<td>mL</td>
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<tr>
<td>Simple syrup, NF</td>
<td>Y</td>
<td>qs 30</td>
<td>mL</td>
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</tbody>
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**Directions:**
1. Crush the tablets and triturate to a fine powder.
2. Make a mixture of equal parts of syrup and methylcellulose.
3. Add a small amount of this vehicle and levigate to a uniform paste.
4. Add the vehicle in geometric proportions almost to volume, mix thoroughly, and transfer to a graduate.
5. Rinse the mortar and pestle with vehicle, add to the graduate, and qs to 30 mL.

**Notes:**
- Stability-indicating analytical methods not used. In this study, the formulation contained Cologel 33 mL and wild cherry syrup: simple syrup, NF(1:2) qs 100 mL of 20 mg/mL of the formulation. Cologel, a commercially available vehicle consisting of methylcellulose 9% solution, is no longer available. In the above formulation, Cologel can be substituted with methylcellulose 1% solution and the wild cherry syrup: simple syrup mixture with the simple syrup, NF.

**References:**

Reviewed: April 2013; BW/ME

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