

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	QS	Quantity	Units
Thioguanine 40-mg tablet		15	tablet
Methylcellulose solution 1%		10	mL
Simple syrup, NF	Y	qs 30	mL

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:

Nahata MC, Pai VB. *Pediatric Drug Formulations*. 6th ed. Cincinnati, OH: Harvey Whitney Book; 2011.

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