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Xanthan Gum Solution

DEFINITION

Prepare Xanthan Gum Solution of the designated percentage strength as follows (see *Pharmaceutical Compounding—Nonsterile Preparations* ⟨795⟩).

Xanthan Gum (for a 0.1% solution)	100 mg
Xanthan Gum (for 1.0% solution)	1.0 g
Methylparaben	100 mg
Propylparaben	20 mg
Purified Water, a sufficient quantity to make	100 mL

Dissolve a weighed quantity of *Propylparaben* in *Purified Water* with heating to 50° and stirring. Cool, and dilute quantitatively, and stepwise if necessary, with *Purified Water* to obtain 90 mL of solution containing 20 mg of *Propylparaben*. Heat to 50°, and add the *Methylparaben*, with stirring, to dissolve. Cool, stir with a blender, slowly sift the Xanthan Gum into the vortex, and continue to blend for 2 min after the Xanthan Gum has been added. Add 10 mL of *Purified Water*, and blend for 5 min. Allow to stand for 1 h for excess foam to subside, and remove most of the remaining foam by passing the solution through a strainer. Add *Purified Water*, if necessary, to make the final volume 100 mL, and stir. [Note—Depending on the volume needed and the equipment available, adjust the formula proportionately.]

ADDITIONAL REQUIREMENTS

- **Packaging and Storage:** Preserve in tight, light-resistant containers, and store at controlled room temperature.
- **Labeling:** Label it to state, as part of the official title, the percentage content of Xanthan Gum.
- **Beyond-Use Date:** Six weeks after the day on which it was compounded

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
XANTHAN GUM SOLUTION	Brian Serumaga Science Program Manager	CMP2020 Compounding 2020
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	CMP2020 Compounding 2020

Chromatographic Database Information: Chromatographic Database

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