

Pyrimethamine Suspension 2 mg/mL—Formulation 1

INGREDIENTS:

Pyrimethamine 25 mg tablet	10 tablets
Methylcellulose 1%/simple syrup NF *	QSAD: 125 mL

EQUIPMENT AND SUPPLIES:

Powder containment hood, mortar and pestle, graduated cylinder

PREPARATION DETAILS:

1. Triturate tablets to a fine powder with a mortar and pestle.
2. Levigate powder with a small amount of vehicle to form a paste.
3. Add vehicle in increasing amounts while mixing thoroughly.
4. Transfer contents of the mortar to a graduated cylinder.
5. Rinse the mortar and pestle with vehicle and pour into graduated cylinder.
6. Add vehicle to the graduated cylinder to achieve the total volume indicated above.
7. Transfer contents of the graduated cylinder into an appropriately sized amber bottle.
8. Shake well to mix.

Special Instructions — *Mix 62.5 mL of methylcellulose 1% (see page 107 for preparation directions) with 62.5 mL of simple syrup NF. Use mixture as vehicle.

Quality-Control Procedures — Visually inspect for physical appearance of formulation and container closure integrity (no leakage, cracks in container, or improper seals).

Labeling Requirements — Extemporaneously compounded preparation. For oral use only. Store at room temperature or refrigerate. Shake well before use.

Storage Conditions/Stability — Store at room temperature or refrigerate. Stable for 91 days.

STABILITY STUDY DETAILS:

Study Container Type — Amber plastic (polyethylene terephthalate [PET]) and amber glass prescription bottle

Referenced Manufacturers — Pyrimethamine tablets (Wyeth-Ayerst Laboratories); methylcellulose (not specified); simple syrup (Humco).

Stability-Indicating Study — Yes

REFERENCE

1. Nahata MC, Morosco RS, Hipple TF. Stability of pyrimethamine in a liquid dosage formulation stored for three months. *Am J Health Syst Pharm.* 1997;54:2714-2716.