

Famotidine Syrup 8 mg/mL

INGREDIENTS:

Famotidine 40 mg tablet	24 tablets
Distilled water	40 mL
Cherry syrup	QSAD: 120 mL

EQUIPMENT AND SUPPLIES:

Powder containment hood, glass mortar and pestle, graduated cylinder

PREPARATION DETAILS:

1. Triturate tablets to a fine powder with a mortar and pestle.
2. Levigate powder with 20 mL of distilled water 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 20 mL of distilled water 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.

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 20 days when refrigerated and 15 days when stored at room temperature.

STABILITY STUDY DETAILS:

Study Container Type — Amber glass bottle

Referenced Manufacturer — Famotidine tablets (Merck Sharp & Dohme Corp); distilled water, cherry syrup (not specified).

Stability-Indicating Study — Yes

Commercially available — Use extemporaneously prepared formulation only when commercial product is unavailable.

REFERENCE

1. Quercia RA, Jay GT, Fan C, et al. Stability of famotidine in an extemporaneously prepared oral liquid. *Am J Hosp Pharm.* 1993;50(4):691-693.