

Ciprofloxacin Hydrochloride Suspension 50 mg/mL— Formulation 1

INGREDIENTS:

Ciprofloxacin hydrochloride 750 mg tablet	8 tablets
Ora-Plus/simple syrup NF*	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 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 60 mL of Ora-Plus with 60 mL of simple syrup NF. Use mixture as vehicle. Bitter aftertaste. May mix the preparation with chocolate syrup (1:1 by volume) immediately before administration to mask the bitter aftertaste.

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 56 days.

STABILITY STUDY DETAILS:

Study Container Type — Amber plastic prescription bottle with child-resistant cap

Referenced Manufacturers — Ciprofloxacin hydrochloride tablets (Bayer Pharmaceuticals); Ora-Plus (Paddock Laboratories, LLC); simple syrup (Humco).

Stability-Indicating Study — Yes

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

REFERENCE

1. Johnson CE, Wong DV, Hoppe HL, et al. Stability of ciprofloxacin in an extemporaneous oral liquid dosage form. *Int J Pharm Compd*. 1998;2:314-317.