

Rifampin Suspension 25 mg/mL—Formulation 2

INGREDIENTS:

Rifampin powder	3 g
SyrSpend SF	QSAD: 120 mL

EQUIPMENT AND SUPPLIES:

Powder containment hood, pharmaceutical analytical scale, mortar and pestle, graduated cylinder

PREPARATION DETAILS:

1. Weigh out powder and add to a mortar.
2. Triturate contents to a fine powder.
3. Levigate powder with a small amount of vehicle to form a paste.
4. Add vehicle in increasing amounts while mixing thoroughly.
5. Transfer contents of the mortar to a graduated cylinder.
6. Rinse the mortar and pestle with vehicle and pour into graduated cylinder.
7. Add vehicle to the graduated cylinder to achieve the total volume indicated above.
8. Transfer contents of the graduated cylinder into an appropriately sized amber bottle.
9. 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 60 days.

STABILITY STUDY DETAILS:

Study Container Type — Low-actinic, amber prescription bottle

Referenced Manufacturers — Rifampin powder (Sigma-Aldrich); SyrSpend SF (Fagron).

Stability-Indicating Study — Yes

Footnote — Suspension prepared from powder may be nonhomogeneous and lead to unpredictable dosing.

REFERENCES

1. Sorenson B, Whaley P. Stability of rifampin in SyrSpend SF. *Int J Pharm Compd*. 2013;17(2):162-164.
2. Nahata MC, Morosco RS, Hipple TF. Effect of preparation method and storage on rifampin concentration in suspensions. *Ann Pharmacother*. 1994;28:182-185.