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Add the following:

^Leflunomide Compounded Oral Suspension

DEFINITION

Leflunomide Compounded Oral Suspension contains NLT 90.0% and NMT 110.0% of the labeled amount of leflunomide ($C_{12}H_9F_3N_2O_2$).

Prepare Leflunomide Compounded Oral Suspension 20 mg/mL as follows (see [Pharmaceutical Compounding—Nonsterile Preparations \(795\)](#)).

| | |
|--|---------|
| Leflunomide powder | 2000 mg |
| Vehicle: 1:1 mixture of Ora-Plus ^a and Ora-Sweet ^a , a sufficient quantity to make | 100 mL |

^a Perrigo, Allegan, MI.

Place the *Leflunomide powder* in a suitable container and triturate to a fine powder. Add a small amount of *Vehicle* and mix well to form a smooth paste. Add a sufficient amount of *Vehicle* to make the contents pourable. Transfer the contents stepwise and quantitatively to a calibrated container using the remainder of the *Vehicle*. Add sufficient *Vehicle* to bring to final volume. Mix well.

[CAUTION—Leflunomide is a hazardous drug and must be handled accordingly.]

ASSAY

• PROCEDURE

Mobile phase: Add 350 mL of acetonitrile to 650 mL of water. Add 5 mL of trimethylamine and adjust with phosphoric acid to a pH of 4.0.

Standard solution: 0.5 mg/mL of USP Leflunomide RS in methanol

Sample solution: Transfer 0.625 mL of Oral Suspension into a 25-mL volumetric flask, and add methanol to volume. Pass through a filter of 0.22- μ m pore size.

Chromatographic system

(See [Chromatography \(621\), System Suitability](#).)

Mode: LC

Detector: UV 260 nm

Column: 2.1-mm \times 5-cm; 1.6- μ m packing L1

Temperatures

Autosampler: 10°

Column: 20°

Flow rate: 0.39 mL/min

Injection volume: 1 μ L

System suitability

Sample: Standard solution

[NOTE—The retention time for leflunomide is about 8.6 min.]

Suitability requirements

Tailing factor: NMT 2.0

Relative standard deviation: NMT 2.0% for replicate injections

Analysis

Samples: Standard solution and Sample solution

Calculate the percentage of the labeled amount of leflunomide ($C_{12}H_9F_3N_2O_2$) in the portion of Oral Suspension taken:

$$\text{Result} = (r_U/r_S) \times (C_S/C_U) \times 100$$

r_u = peak response of leflunomide from the *Sample solution* r_s = peak response of leflunomide from the *Standard solution* C_s = concentration of USP Leflunomide RS in the *Standard solution* (mg/mL) C_u = nominal concentration of leflunomide in the *Sample solution* (mg/mL)**Acceptance criteria:** 90.0%–110.0%**SPECIFIC TESTS**

- [pH \(791\)](#): 3.7–4.7

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Package in tight, light-resistant containers. Store at controlled room temperature or in a refrigerator.
- **Beyond-Use Date:** NMT 90 days after the date on which it was compounded when stored at controlled room temperature or in a refrigerator
- **LABELING:** Label it to state that it is to be well shaken before use, and to state the *Beyond-Use Date*.
- [USP Reference Standards \(11\)](#)
[USP Leflunomide RS](#)

▲2S (USP41)

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

| Topic/Question | Contact | Expert Committee |
|--|---|--------------------------|
| LEFLUNOMIDE COMPOUNDED ORAL SUSPENSION | 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](#)**Most Recently Appeared In:**

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