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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 <sup>a</sup> and Ora-Sweet <sup>a</sup> , a sufficient quantity to make	100 mL

<sup>a</sup> 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-μm pore size.

#### Chromatographic system

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

**Mode:** LC  
**Detector:** UV 260 nm  
**Column:** 2.1-mm × 5-cm; 1.6-μm packing L1  
**Temperatures**  
**Autosampler:** 10°  
**Column:** 20°  
**Flow rate:** 0.39 mL/min  
**Injection volume:** 1 μL

#### 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:

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	<a href="#">Brian Serumaga</a> Science Program Manager	CMP2020 Compounding 2020
REFERENCE STANDARD SUPPORT	RS Technical Services <a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a>	CMP2020 Compounding 2020

**Chromatographic Database Information:** [Chromatographic Database](#)

#### Most Recently Appeared In:

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