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# Piroxicam Compounded Oral Suspension

**DEFINITION**  
Piroxicam Compounded Oral Suspension contains NLT 90.0% and NMT 110.0% of the labeled amount of piroxicam ( $C_{15}H_{13}N_3O_4S$ ).

Prepare Piroxicam Compounded Oral Suspension 10 mg/mL as follows (see [Pharmaceutical Compounding—Nonsterile Preparations \(795\)](#)).

Piroxicam powder	1 g
Ora-Blend, <sup>a</sup> a sufficient quantity to make	100 mL

<sup>a</sup> Perrigo, Minneapolis, MN.

Pour the weighed *Piroxicam powder* into a suitable mortar. Wet the powder with a small amount of *Ora-Blend*, and triturate to make a smooth paste. Add the *Ora-Blend* in small portions almost to volume, and mix thoroughly after each addition. Transfer the contents of the mortar, stepwise and quantitatively, to a calibrated container. Add sufficient *Ora-Blend* to bring the preparation to final volume. Shake to mix well.

**ASSAY**

• **PROCEDURE**

**Mobile phase:** Mix 500 mL of methanol and 500 mL of 0.1 M sodium acetate, and adjust with phosphoric acid to a pH of 4.0. Add 10 mL of acetonitrile, filter, and degas.

**Standard solution:** 0.2 mg/mL of piroxicam prepared from [USP Piroxicam RS](#) in methanol

**Sample solution:** Shake thoroughly each bottle of Oral Suspension. Transfer 1.0 mL of the Oral Suspension into a 50-mL volumetric flask, dilute with methanol to volume, and mix well to dissolve. Pass through a PVDF filter of 0.45-µm pore size, discarding the first 3 mL of filtrate.

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

- Mode:** LC
- Detector:** UV 361 nm
- Column:** 3.9-mm × 15-cm; 4-µm packing L7
- Flow rate:** 1.0 mL/min
- Injection volume:** 5 µL

**System suitability**  
**Sample:** *Standard solution*  
[NOTE—The retention time for piroxicam is about 4.0 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 piroxicam ( $C_{15}H_{13}N_3O_4S$ ) in the portion of Oral Suspension taken:

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

- $r_U$  = peak response of piroxicam from the *Sample solution*
- $r_S$  = peak response of piroxicam from the *Standard solution*
- $C_S$  = concentration of piroxicam in the *Standard solution* (mg/mL)

$C_u$  = nominal concentration of piroxicam 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 2°–8° or at controlled room temperature.
- **LABELING:** Label it to indicate that it is to be well-shaken before use, and to state the *Beyond-Use Date*.
- **BEYOND-USE DATE:** NMT 90 days after the date on which it was compounded when stored at 2°–8° or controlled room temperature
- **USP REFERENCE STANDARDS** (11).  
[USP Piroxicam RS](#)

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

Topic/Question	Contact	Expert Committee
PIROXICAM 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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