

Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-Dec-2014
 Document Type: USP Monographs
 DocId: GUID-80F91B17-60A2-4836-B683-82F10DA0EC49_1_en-US
 DOI: https://doi.org/10.31003/USPNF_M8093_01_01
 DOI Ref: wv8ue

© 2025 USPC
 Do not distribute

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, ^a a sufficient quantity to make	100 mL

^a 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- μ m 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 \times 15-cm; 4- μ m packing L7

Flow rate: 1.0 mL/min

Injection volume: 5 μ L

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:

$$\text{Result} = (r_u/r_s) \times (C_s/C_u) \times 100$$

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)

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	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:

Pharmacopeial Forum: Volume No. PF 39(4)

Current DocID: GUID-80F91B17-60A2-4836-B683-82F10DA0EC49_1_en-US**DOI: https://doi.org/10.31003/USPNF_M8093_01_01****DOI ref: [wv8ue](#)**