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# Captopril Compounded Oral Suspension

**DEFINITION**

Captopril Compounded Oral Suspension contains NLT 90.0% and NMT 110.0% of the labeled amount of captopril (C<sub>9</sub>H<sub>15</sub>NO<sub>3</sub>S).

Prepare Captopril Compounded Oral Suspension 0.75 mg/mL as follows (see [Pharmaceutical Compounding—Nonsterile Preparations \(795\)](#)).

Captopril	75 mg
Vehicle: a 1:1 mixture of Vehicle for Oral Solution (regular or sugar-free), <i>NF</i> , and Vehicle for Oral Suspension, <i>NF</i> , a sufficient quantity to make	100 mL

Place the required number of tablets in a suitable mortar and comminute to a fine powder, or use *Captopril* powder. Add 10 mL of *Vehicle*, and mix to form a uniform paste. Add the *Vehicle* in small portions, and mix thoroughly after each addition. Transfer the contents of the mortar, stepwise and quantitatively, to a calibrated bottle. Add sufficient *Vehicle* to bring to final volume, and mix well.

**ASSAY**

• **PROCEDURE**

**Mobile phase:** Methanol and water (55:45) containing 0.5 mL/L of phosphoric acid. Filter, and degas.

**Standard solution:** 7.5 µg/mL of [USP Captopril RS](#)

**Sample solution:** Agitate the container of Oral Suspension for 30 min on a rotating mixer, remove a 5-mL sample, and store in a clear glass vial at –70° until analyzed. At the time of analysis, remove the sample from the freezer, allow it to reach room temperature, and mix with a vortex mixer for 30 s. Pipet 1.0 mL of the sample into a 100-mL volumetric flask, and dilute with *Mobile phase* to volume.

**Chromatographic system**

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

**Mode:** LC

**Detector:** UV 220 nm

**Column:** 4.6-mm × 25-cm; 5-µm packing L1

**Flow rate:** 1 mL/min

**Injection volume:** 20 µL

**System suitability**

**Sample:** *Standard solution*

[NOTE—The retention time for captopril is about 5.0 min.]

**Suitability requirements**

**Relative standard deviation:** NMT 0.9% for replicate injections

**Analysis**

**Samples:** *Standard solution* and *Sample solution*

Calculate the percentage of the labeled amount of captopril (C<sub>9</sub>H<sub>15</sub>NO<sub>3</sub>S) in the portion of Oral Suspension taken:

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

$r_U$  = peak response from the *Sample solution*

$r_S$  = peak response from the *Standard solution*

$C_S$  = concentration of [USP Captopril RS](#) in the *Standard solution* (µg/mL)

$C_U$  = nominal concentration of captopril in the *Sample solution* (µg/mL)

**Acceptance criteria:** 90.0%–110.0%

**SPECIFIC TESTS**

• **pH (791):** 3.8–4.3

**ADDITIONAL REQUIREMENTS**

- **PACKAGING AND STORAGE:** Package in tight, light-resistant containers. Store in a refrigerator.
- **BEYOND-USE DATE:** NMT 7 days after the date on which it was compounded when stored in a refrigerator
- **LABELING:** Label it to indicate that it is to be well shaken before use, and to state the *Beyond-Use Date*.
- **USP REFERENCE STANDARDS (11)**  
[USP Captopril RS](#)

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

Topic/Question	Contact	Expert Committee
CAPTOPRIL COMPOUNDED ORAL SUSPENSION	<a href="#">Brian Serumaga</a> Science Program Manager	CMP2020 Compounding 2020

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

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