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# Chloroquine Phosphate Compounded Oral Suspension

### DEFINITION

Chloroquine Phosphate Compounded Oral Suspension contains NLT 90.0% and NMT 110.0% of the labeled amount of chloroquine phosphate ( $C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$ ).

Prepare Chloroquine Phosphate Compounded Oral Suspension 15 mg/mL as follows (see [Pharmaceutical Compounding—Nonsterile Preparations \(795\)](#)).

Chloroquine Phosphate tablets <sup>a</sup> equivalent to	1.5 g of chloroquine phosphate
Vehicle: a 1:1 mixture of Ora-Sweet <sup>b</sup> and Ora-Plus <sup>b</sup> , a sufficient quantity to make	100 mL

- <sup>a</sup> Aralen 500-mg tablets, Sanofi-Winthrop, NY.  
<sup>b</sup> Paddock Laboratories, Minneapolis, MN.

Calculate the required quantity of each ingredient for the total amount to be prepared. Place the required number of *Chloroquine Phosphate tablets* in a suitable mortar, and comminute to a fine powder. Add the *Vehicle* in small portions, and triturate to make a smooth paste. Add increasing volumes of the *Vehicle* to make a chloroquine phosphate liquid that is pourable. Transfer the contents of the mortar, stepwise and quantitatively, to a calibrated bottle. Add enough of the *Vehicle* to bring to final volume, and mix well.

### ASSAY

#### PROCEDURE

**Buffer solution:** 20 mM 1-heptanesulfonic acid adjusted to a pH of 3.4

**Mobile phase:** Acetonitrile and *Buffer solution* (34:66). Filter and degas.

**Standard solution:** 150 µg/mL of [USP Chloroquine Phosphate RS](#) in *Mobile phase*

**Sample solution:** Shake thoroughly by hand each bottle of Oral Suspension. Pipet 1.0 mL of the Oral Suspension into a 100-mL volumetric flask, and dilute with *Mobile phase* to volume.

#### Chromatographic system

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

**Mode:** LC

**Detector:** UV 340 nm

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

**Flow rate:** 1.5 mL/min

**Injection volume:** 20 µL

#### System suitability

**Sample:** *Standard solution*

[NOTE—The retention time for chloroquine phosphate is about 9.4 min.]

#### Suitability requirements

**Relative standard deviation:** NMT 2% for replicate injections

#### Analysis

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

Calculate the percentage of the labeled amount of chloroquine phosphate ( $C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$ ) 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 Chloroquine Phosphate RS](#) in the *Standard solution* (µg/mL)

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

**Acceptance criteria:** 90.0%–110.0%

**SPECIFIC TESTS**

- **pH** (791): 4.0–5.0

**ADDITIONAL REQUIREMENTS**

- **PACKAGING AND STORAGE:** Package in tight, light-resistant containers. Store at controlled room temperature or in a refrigerator.
- **BEYOND-USE DATE:** NMT 60 days after the date on which it was compounded when stored in a refrigerator 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*.
- **USP REFERENCE STANDARDS** (11).  
[USP Chloroquine Phosphate RS](#)

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

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

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

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