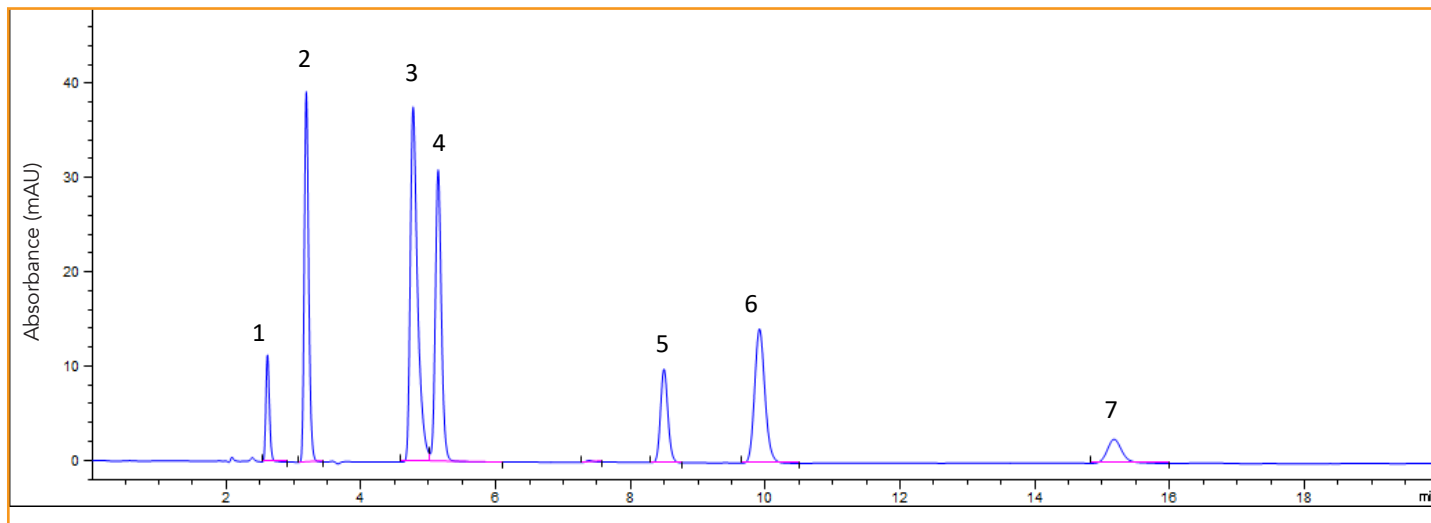




Chloroquine Phosphate Assay and Impurity Profiling

252-P



PEAK IDENTITIES

1. Phenol
2. Chloroquine related compound G (RCG)
3. Chloroquine related compound D (RCD)
4. Hydroxychloroquine sulfate
5. Chloroquine related compound A (RCA)
6. Chloroquine Phosphate
7. Chloroquine related compound E (RCE)

TEST CONDITIONS:

Column: HALO 90 Å C18, 5 µm, 4.6 x 250 mm
Part Number: 95814-902
Mobile Phase: 70/30 Methanol/buffer/0.4% triethylamine
 buffer: 1.4 g K₂HPO₄ in 1000 mL, adjust to pH 3.0
 using H₃PO₄

Isocratic

Flow Rate: 1 mL/min
Pressure: 237 bar
Temperature: 30 °C
Detection: UV @ 260 nm
Injection Volume: 20 µL
Sample Solvent: mobile phase
Flow Cell: 10 µL

Chloroquine Phosphate is in a class of drugs called antimalarials/amebiasis and is used to prevent and treat malaria. A quick and easy HPLC method is used for the chromatographic purity of Chloroquine Phosphate. These conditions follow the USP43-NF38 monograph methods for Chloroquine Phosphate Assay and Impurity Profiling with minor modifications in the sample concentration. The isocratic method shows excellent resolution and peak shape using a HALO® 5 µm C18 column. A 6.0 resolution value between chloroquine phosphate and chloroquine related compound A is well over the USP requirement. (> 2.0)

