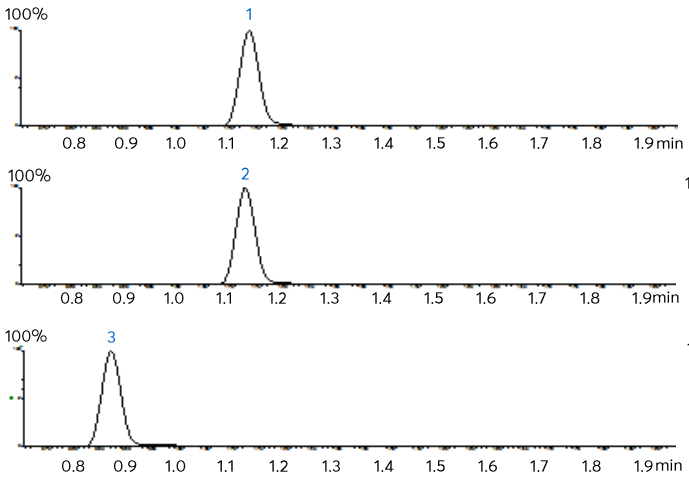
Chromatography Solutions

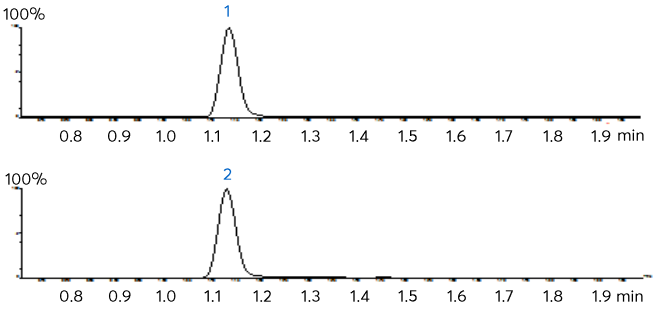
# Application note #1120

# Hydroxychloroquine in Whole (EDTA) Blood by LC-MS/MS

1. Hydroxychloroquine (*m/z* 336 → 247)
2. D4-Hydroxychloroquine (IS) (*m/z* 340 → 251)
3. Desethylhydroxychloroquine (*m/z* 308 → 247)




Typical chromatograms for whole (EDTA) blood samples from patient with systemic lupus




Typical chromatograms for lowest calibrator (0.09 mg/L hydroxychloroquine)

Avantor® ACE®

# Method Details

## CONDITIONS

Column: Avantor® ACE® Excel 2 SuperC18

Particle Size: 2 µm

Dimensions: 50 x 2.1 mm

Mobile Phase: A: 0.5% Ammonium hydroxide pH 10 in $H_2O$

B: 0.5% Ammonium hydroxide in MeCN

Gradient:

| Time (mins) | % B |
|---|---|
| 0.00 | 30 |
| 1.50 | 100 |
| 2.50 | 100 |
| 2.51 | 30 |

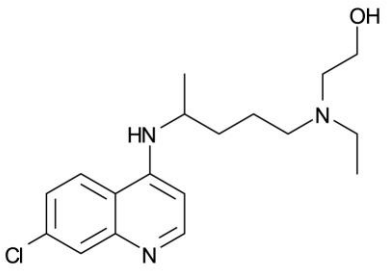
Flow Rate: 0.4 mL/min

Injection: 5 µL

Temperature: 40 °C

Detection: MS/MS detection with Waters TQD

ESI +ve ion mode




Hydroxychloroquine

## ORDERING TABLE

| Product | Details | Size | Part Number |
|---|---|---|---|
| Avantor® ACE® Excel 2 Super C18 | UHPLC Column | 50 x 2.1 mm | EXL-1011-0502U |

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