

Human Plasma Vitamin C on Kinetex 5u XB-C18, 150x4.6mm (1.56ug/mL)_LOQ

Column: Kinetex® 5µm XB-C18 100 Å, LC Column 150 x 4.6 mm, Ea

Dimensions: 150 x 4.6 mm ID

Order No: 00F-4605-E0

Elution Type: Gradient

Eluent A: 0.1% formic acid

Eluent B: Acetonitrile 100%

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
| | 1 | 0 | 100 | 0 |
| | 2 | 3.5 | 100 | 0 |
| | 3 | 3.6 | 0 | 100 |
| | 4 | 5 | 0 | 100 |
| | 5 | 5.1 | 100 | 0 |
| | 6 | 7 | 100 | 0 |

Flow Rate: 800 µL/min

Col. Temp.: ambient

Detection: UV-Vis Abs.-Variable Wave.(UV) @ 245 nm (ambient)

Analyst Note: Guard column and cartridges were used for human plasma vitamin C analysis:

SecurityGuard Ultra Cartridges: Cat log No. AJO-8768.

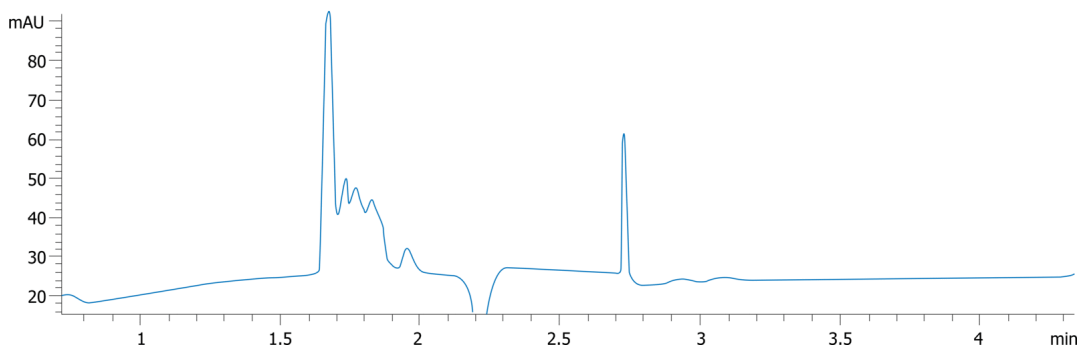
SecurityGuard Ultra Cartridge holder: Cat log No. AJO-9000.



Products used in this application:



21446



ANALYTES:

1 Vitamin C

Retention Time: 2.205 min

2 Uric acid

Retention Time: 4.513 min



Sample Preparation Details

for HPLC Application ID No.: 21446

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PRODUCT DESCRIPTION:

Impact[™] Protein Precipitation, 2mL Square Well Filter Plate, 2/Pk

Order No.: CE0-7565

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a Proprietary bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

Elute:

Final Prep and Analysis:

Inject: 1 µL on HPLC UV-Vis Abs.-Variable Wave.(UV) @ 245 nm (ambient)

| ANALYTES: | Spiked Conc. (ng/mL) | Log P | pKa | % Rec | %RSC (n=0) |
|-------------|-------------------------|-------|-----|-------|---------------|
| 1 Vitamin C | 50 | | | | |
| 2 Uric acid | 0 | | | | |

Note: This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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