

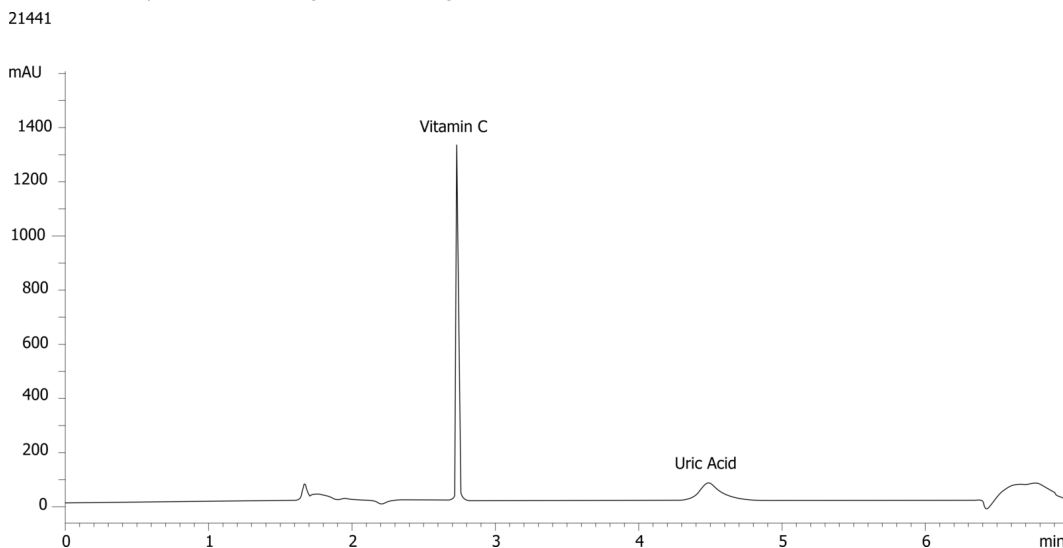
**Human Plasma Vitamin C on Kinetex 5u XB-C18, 150x4.6mm (50ug/mL)\_New****Column:** Kinetex® 5µm XB-C18 100 Å, LC Column 150 x 4.6 mm, Ea**Dimensions:** 150 x 4.6 mm ID**Order No:** 00F-4605-E0**Elution Type:** Gradient**Eluent A:** 0.1% formic acid**Eluent B:** Acetonitrile 100%

| 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**Col. Temp.:** ambient**Detection:** Electrospray Mass Spec (ESMS) @ 0.0000000000 (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:****ANALYTES:****1** Vitamin C

Retention Time: 2.205 min

**2** Uric acid

Retention Time: 4.485 min



# Sample Preparation Details

for HPLC Application ID No.: 21441

## Human Plasma Vitamin C on Kinetex 5u XB-C18, 150x4.6mm (50ug/mL)\_New

### 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: 0 µL on HPLC Electrospray Mass Spec (ESMS) @ 0.000000000 (ambient)

| ANALYTES:   | Spiked Conc.<br>(ng/mL) | Log P | pKa | % Rec | %RSC<br>(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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