HPLC Application

ID No.: **21446**

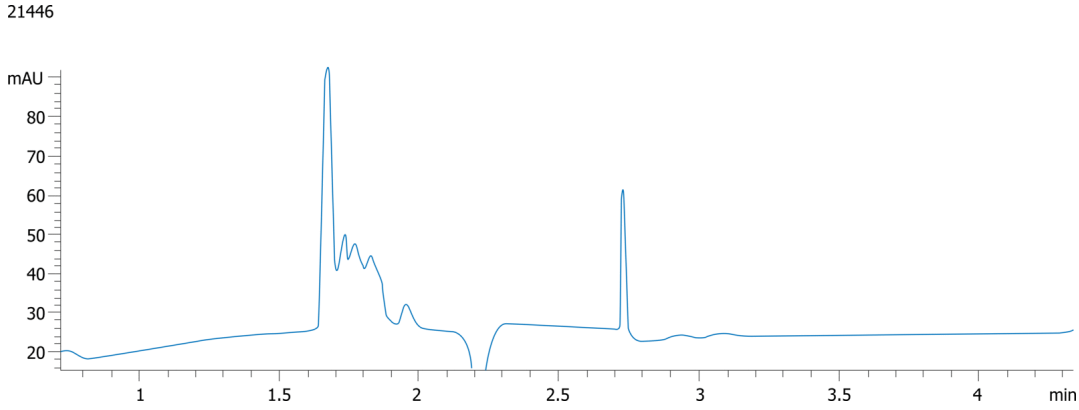
Human Plasma Vitamin C on Kinetex 5u XB-C18, 150x4.6mm (1.56ug/mL)_LOQ

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:

KINETEX®

ANALYTES:

1 Vitamin C
Retention Time: 2.205 min

2 Uric acid
Retention Time: 4.513 min

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

Phenomenex products are available worldwide.

Sample Preparation Details

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

PRODUCT DESCRIPTION:

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

Order No.: CE0-7565

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

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.*