HPLC Application

Human Plasma Vitamin C on Kinetex 5u XB-C18, 150x4.6mm Wavelength Study

2.8

2.9

3

min

2.7

	isma vila		ielex Su	XD-C10 , 1		VV d			
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	Step No.	Time (min)	Pct A	Pct B					
Profile:	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 AbsVariable 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 L	lltra Cartridge holder: Ca	t log No. AJO-900	0.					
21442									
maU									
_			Λ						
1200 —									
1000 —			Δ						
800									
800 —									
600									
-									





ANALYTES:

1 Vitamin C

400

200

0

Retention Time: 2.205 min

2.4

2.5

2.6

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Sample Preparation Details

for HPLC Application ID No.: 21442



Human Plasma Vitamin C on Kinetex 5u XB-C18, 150x4.6mm Wavelength Study

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.	Log P	рКа	% Rec	%RSC
	(ng/mL)				(n=0)
1 Vitamin C	50				

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.

Phe

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