HPLC Application

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Column: Kinetex@ Sµm XB-C18 100 Å, LC Column 150 x 4.6 mm, Ea Dimensions: 150 x 4.6 mm 10 Order No: 00F-40505-E0 Elution Type: Gradient Eluent B: 0.1% formic acid Eluent B: Acetonithie 100% Gradient Step No. 1 0 3 3.6 0 100 4 5 5 5.1 100 0 6 7 100 0 6 7 100 0 6 7 100 0 6 7 100 0 5 5.1 100 0 200 µL/min Col.Temp: 201 Guard colum and cartridge wave.(UV) @ 245 nm (ambient) Analyst Note: SecurityGuard Ultra Cartridge. Tot pixe. ADC-9000. 2144 100 100 0 100 0 100 0 100 0 2144 100	Human Pla	isma Vita	min C on Kir	netex 5u	XB-C18, 1	50x4.6m	m (50ug/mL)_	New			
Dimensions: 150 × 4.6 mm 1D Order No: 007-4605-E0 Eluent No: 007-4605-E0 Eluent A: 0.1% formic add Eluent A: 0.1% formic add Eluent B: Acetonitrile 100% 2 3.5 100 2 3.5 0 3 3.6 0 4 5 0 5 5.1 100 6 7 100 6 7 100 7 100 0 6 7 100 7 100 0 6 7 100 7 100 0 6 7 100 7 100 0 6 7 100 7 100 0 101 0 100 102 UV-Vis AbsVariable Wave.(UV) @ 245 nm (ambient) Analyst Note: Guard column and cartridges: Cat log No. Al0-9000. 21441 1400 Vitamin C 1000 Urit Acid	Column:	Kinetex® 5um XB-C18 100 Å, LC Column 150 x 4.6 mm, Ea									
Order No: 00F-4605-E0 Elution Type: Gradient Eluent A: 0.1% formic acid Eluent B: Acctonitrile 100% Gradient Step No. Time (min) Pct A Pct B Profile: 1 0 100 0 2 3.5 100 0 0 3 3.6 0 100 0 4 5 0 100 0 5 5.1 100 0 0 Col. Temp: ambient Courd column actrifuges were used for human plasma vitamin C analysis: SecurityGuard Ultra Cartridge holder: Cat log No. ANO-9000. Zi441 Mu 1400 Vtemin C Uvec Add 1000 0 Uvec Add Uvec Add Uvec Add 21441 Vtemin C Uvec Add Uvec Add Uvec Add	Dimensions:										
Elucin Type: Gradient Eluent A: 0.1% formic acid Eluent B: Acetonitile 100% Gradient Step No. Time (min) Pct A Pct B Profile: 1 0 100 0 2 3.5 100 0 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. AD0-9000. 2141 Mau 100 0 0 0 0 0 0 0 0 0 0 0 0	Order No:						Kinetex				
Eluent A: 0.1% formic acid Eluent B: Acetonitrile 100% Gradient Step No. Time (min) Pct A Profile: 1 2 3.5 3 3.6 0 100 4 5 5 5.1 100 0 5 5.1 100 0 6 7 100 0 6 7 100 0 6 7 100 0 6 7 100 0 6 7 100 0 100 0 100 0 100 0 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100								Oltra-High Performance on Any LC System			
Eluent B: Acetonitrile 100% Gradient Profile: Step No. Time (min) Pct A Pct B 2 3.5 100 0 Products used in this application: 2 3.5 0 100 Products used in this application: 3 3.6 0 100 Products used in this application: 5 5.1 100 0 Products used in this application: Col. Temp.: ambient EscurityGuard Ultra Catridges were used for human plasma vitamin C analysis: SecurityGuard Ultra Catridges: Cat log No. AIO-9000. SecurityGuard Ultra Catridge Note: Catridge Note: Catridge Note: SecurityGuard Ultra Catridge Note: UV-Via No. AIO-9000.			acid								
Gradient Profile: 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 Products used in this application: Main Col. Temp: ambient											
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 Col. Temp: ambient				Pct A	Pct B						
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4 5 0 100 5 5.1 100 0 Flow Rate: 800 µL/min Image: Solution of the							Products us	sed in this application:			
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c j 100 0 Flow Rate: 800 μL/min ambient 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 Cartridge holder: Cat log No. AJO-8768. SecurityGuard Ultra Cartridge holder: Cat log No. AJO-9000. Z1441 mAU								VINIETEV			
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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: SecurityGuard Ultra Cartridge holder: Cat log No. AJO-9000. 21441 1400 ImAU Vitamin C 1200 Vitamin C 1200 Uric Acid	Flow Rate:	-	•	200	C C						
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1400 Vitamin C 1200 0 1000 0 600 0 400 0 0 0											
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1000 - 800 - 600 - 400 - 200 - 0 - Uric Acid											
800 - 600 - 400 - 200 - 0 -	1200 –										
800 - 600 - 400 - 200 - 0 -	-										
600 - 400 - 200 - 0 -	1000 —										
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200 - Uric Acid	600 –										
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0 Uric Acid	400 _										
0 Uric Acid	200										
	200 _				Uric Acio	t					
0 1 2 3 4 5 6 min	0										
		1	2	3	4	5	6 min				
		-	_	-							

ANALYTES:

1 Vitamin C

Retention Time: 2.205 min

2 Uric acid

Retention Time: 4.485 min

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phenomenex breaking with tradition

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) 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				
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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