# **HPLC Application**

ID No.: 21870



### Blank Plasma Samples Extracted from Phree Showing Endogenous Level of Vitamin D3 Using Kinetex C18

Kinetex® 2.6 µm C18 100 Å, LC Column 30 x 3 mm, Ea

**Dimensions:** 30 x 3 mm ID Order No: 00A-4462-Y0 Elution Type: Gradient

Eluent A: 0.1% formic acid/water Eluent B: 0.1% Formic acid/methanol

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	40	60
	2	0.5	5	95
	3	2	5	95
	4	2.01	40	60
	5	3.5	40	60



Products used in this application:



Flow Rate: 0.6 mL/min Col. Temp.: ambient

**Detection:** Mass Spectrometer (MS) @ amu (ambient)

**Detector Info:** <a target="\_blank"

href="https://sciex.com/products/mass-spectrometers?utm\_campaign=2019%20application%20search&utm\_source=phenomenex&utm\_medium=referral">SCIEX<Instrument: API 5000 (AB SCIEX) **Analyst Note:** 

Ionization Source: APCI, Positive Polarity

**Ionization Source Parameters** Curtain Gas: 25.0 psi Gas 1 (Neb Gas): 40.00 psi

ON ihe:

CAD (Collision Gast)0.0

NC: 5.00 μΑ

TEM: 360 °C

Note: Gas 2 is not available in APCI source

MRM Transitions and Mass Dependent Parameters:

Compound	Q1, Da	Q3, Da	Dwell, msec	DP, V	EP, V	CE, V	CXP, V
Vit D2 (1)	395.3	209.3	45	69	10	25	10
Vit D2 (2)	395.3	269.2	45	69	10	25	10
IS (D3-3H2)	386.2	257.2	45	69	10	25	10
Vit D3 (1)	383.2	257.2	45	69	10	23	10
Vit D3 (2)	383.2	211.1	45	69	10	34	10

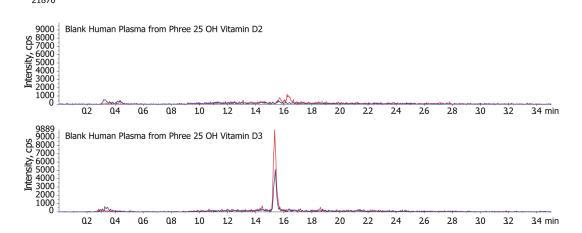
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## Blank Plasma Samples Extracted from Phree Showing Endogenous Level of Vitamin D3 Using Kinetex C18



#### **ANALYTES:**

# Sample Preparation Details for HPLC Application ID No.: 21870



# Blank Plasma Samples Extracted from Phree Showing Endogenous Level of Vitamin D3 Using Kinetex C18

#### **PRODUCT DESCRIPTION:**

Phree<sup>™</sup> Phospholipid Removal, 30 mg / well, 96-Well Plates , 2/Pk

Order No.: 8E-S133-TGB

	CTION (SPE) PRODCEDU				
	s shown below are for a 30 mg				
The solvent volume	s will need to be adjusted for a	smaller or la	rger bed r	nass.	
Condition:					
Load:					
Dispense 300 uL of 85%ACN/15%	MeOH in the Phree plate				
•	(Vitamin D2 & D3 mix, to yield conc. = 75ng/mL	) Human Plasma samı	ple in each well	with manual aspiration 2	-3x (to ensure complete PPT)
Dispense 200 uL more of 85%ACN	r 1-2 mins at high vacuum (15" Hg) and collect f l/15% MeOH. Wait for 30 secs followed by vacuu e column (no need to dry down the sample).		mins at 15" Hg	and collect filtrate.	
Wash:					
Dry:					
Elute:					
Final Prep and Analysis:					
Inject: 50 µL on HPLC	C Mass Spectrometer (MS) @ a	amu (ambient	:)		
ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)

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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