HPLC Application ID No.: **20882**



TMP and Thiamine Multi-Standard by Impact PPT on Kinetex 5u C18 100x4.6mm

Kinetex® 5µm C18 100 Å, LC Column 100 x 4.6 mm, Ea

100 x 4.6 mm ID **Dimensions:** Order No: 00D-4601-E0 Elution Type: Gradient

Eluent A: 25mM Na2HPO4, 10% Methanol, pH 7.0 25mM Na2HPO4, 70% Methanol, pH 7.0 **Eluent B:**

	25111111142111 6 17 7 6 76 11 1211411617 \$11 7 16							
Gradient	Step No.	Time (min)	Pct A	Pct B				
Profile:	1	0	97	3				
	2	0.25	75	25				
	3	0.75	75	25				
	4	3	65	35				
	5	4	40	60				
	6	4.5	97	3				
	7	5	97	3				



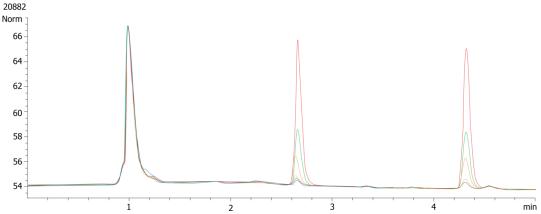
Products used in this application:



Flow Rate: 1 mL/min Col. Temp.: 25 °C

Fluorescence (FLUOR) @ Ex. 375 nm (ambient) **Detection:**

Using Impact Protein Precipitation Plate (Cat Log #CE0-7565) for sample preparation **Analyst Note:**



ANALYTES:

Thiamine monophosphate

Retention Time: 2.658 min

2 Thiamine

Retention Time: 4.312 min

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Sample Preparation Details

for HPLC Application ID No.: 20882



TMP and Thiamine Multi-Standard by Impact PPT on Kinetex 5u C18 100x4.6mm

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.

Inject: 20 µL on HPLC Fluorescence (FLUOR) @ Ex. 375 nm (ambient)

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:	•
Load:	
Wash:	
Dry:	
Elute:	
Final Prep and Analysis:	
Add 400 μ L of methanol to a well of a Protein Precipitation Plate; Add 100 μ L plasma Mix 3 times with pipette tip (or vortex the whole plate briefly); Wait for 5 minutes; I	

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Thiamine monophosphate	5				
2 Thiamine	5				

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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