

HPLC Application

ID No.: 21879

Human Breast Milk TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate_5

Column: Gemini[®] 3 μ m NX-C18 110 Å, LC Column 100 x 3 mm, Ea

Dimensions: 100 x 3 mm ID

Order No: 00D-4453-Y0

Elution Type: Gradient

Eluent A: 25nM Na₂HPO₄, 10% methanol

Eluent B: 25mM Na₂HPO₄, 70% methanol

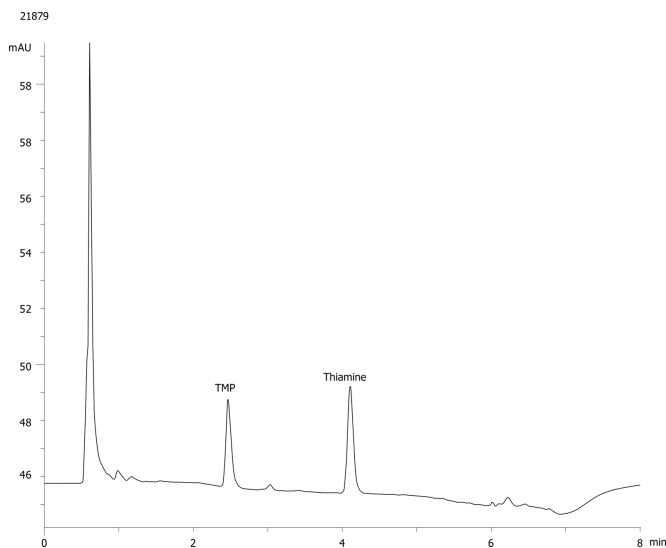
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	3	97
	2	0.25	25	75
	3	0.75	25	75
	4	3	35	65
	5	4	100	0
	6	5	100	0
	7	5.1	3	97
	8	8	3	97

Flow Rate: 0.75 mL/min

Col. Temp.: ambient

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

Detector Info: Shimadzu ELSD



ANALYTES:

- 1 TMP
Retention Time: 2.517 min
- 2 Thiamine
Retention Time: 4.128 min



Products used in this application:



Sample Preparation Details

for HPLC Application ID No.: 21879

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PRODUCT DESCRIPTION:

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

Order No.: CE0-7565

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

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

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 TMP	200				
2 Thiamine	200				

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



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