

# HPLC Application

ID No.: 21875

## Human Plasma TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate\_2.5nmol

**Column:** Gemini® 3 µm 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:** 25mM Na<sub>2</sub>HPO<sub>4</sub>, 10% methanol

**Eluent B:** 25mM Na<sub>2</sub>HPO<sub>4</sub>, 70% methanol

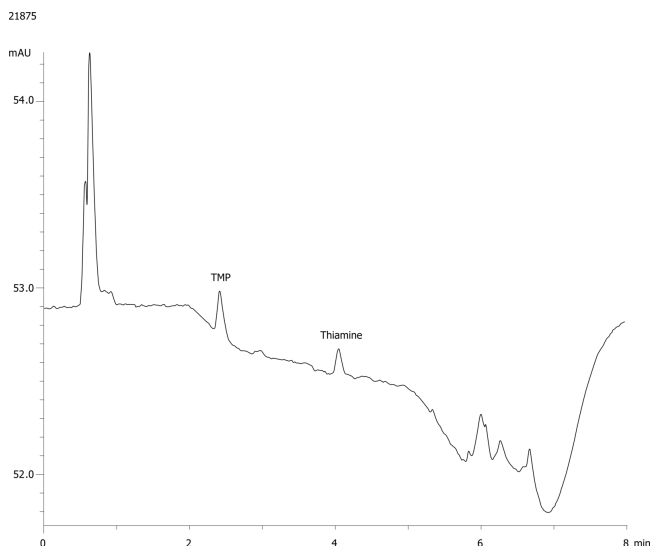
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	3	97
	2	0.25	25	75
	3	0.75	25	75
	4	3	35	65
	5	4	100	0
	6	5	100	0
	7	5.1	3	97
	8	8	3	97

**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.: 21875

## Human Plasma TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate\_2.5nmol

### 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	2.5				
2 Thiamine	2.5				

**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.

©2025 Phenomenex Inc. All rights reserved.

For more information contact your Phenomenex Representative at [info@phenomenex.com](mailto:info@phenomenex.com)



Phenomenex products are available worldwide.

[www.phenomenex.com.cn](http://www.phenomenex.com.cn)

[info@phenomenex.com](mailto:info@phenomenex.com)