# **HPLC Application**

ID No.: 21874



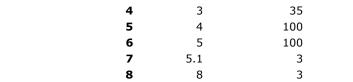
## Human Plasma TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate\_200nmol

Gemini® 3 µm NX-C18 110 Å, LC Column 100 x 3 mm, Ea

100 x 3 mm ID **Dimensions:** Order No: 00D-4453-Y0 Elution Type: Gradient

25mM Na2HPO4, 10% methanol Eluent A: Eluent B: 25mM Na2HPO4, 70% methanol

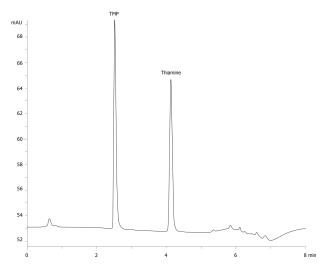
Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	3	97
	2	0.25	25	75
	3	0.75	25	75
	4	3	35	65
	5	4	100	0
	6	5	100	0
	7	5.1	3	97
	Q	Q	3	97



Flow Rate: 0.75 mL/min Col. Temp.: ambient

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

**Detector Info:** Shimadzu FLD



### **ANALYTES:**

TMP

Retention Time: 2.517 min

Thiamine

Retention Time: 4.128 min



Products used in this application:



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# **Sample Preparation Details**

for HPLC Application ID No.: 21874



# Human Plasma TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate\_200nmol

#### **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: 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				(11-0)
<b>2</b> Thiamine	200				

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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