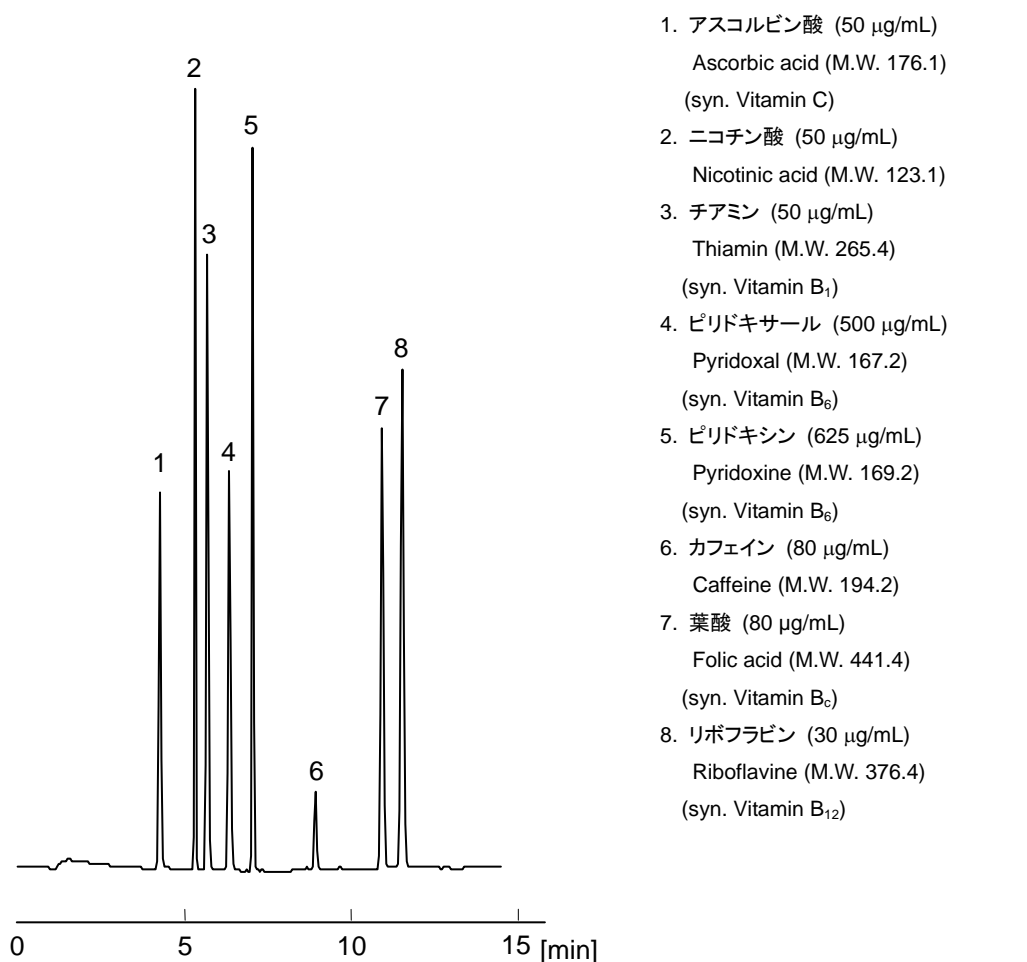


## 水溶性ビタミン（グラジエント）Hydrophilic vitamins（gradient elution）

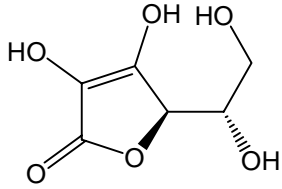


1. アスコルビン酸 (50 µg/mL)  
Ascorbic acid (M.W. 176.1)  
(syn. Vitamin C)
2. ニコチン酸 (50 µg/mL)  
Nicotinic acid (M.W. 123.1)
3. チアミン (50 µg/mL)  
Thiamin (M.W. 265.4)  
(syn. Vitamin B<sub>1</sub>)
4. ピリドキサル (500 µg/mL)  
Pyridoxal (M.W. 167.2)  
(syn. Vitamin B<sub>6</sub>)
5. ピリドキシン (625 µg/mL)  
Pyridoxine (M.W. 169.2)  
(syn. Vitamin B<sub>6</sub>)
6. カフェイン (80 µg/mL)  
Caffeine (M.W. 194.2)
7. 葉酸 (80 µg/mL)  
Folic acid (M.W. 441.4)  
(syn. Vitamin B<sub>9</sub>)
8. リボフラビン (30 µg/mL)  
Riboflavine (M.W. 376.4)  
(syn. Vitamin B<sub>12</sub>)

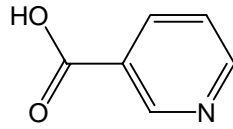
\* A mixing column and a flow cell were of conventional size.

### 【HPLC Conditions】

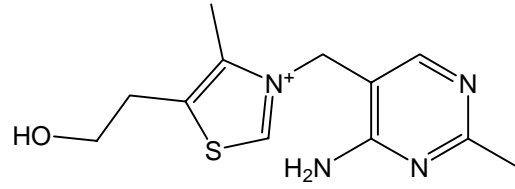
Column : CAPCELL PAK C<sub>18</sub> AQ S5 ; 4.6 mm i.d. x 250 mm  
 Mobile phase : A) 0.15 vol% TFA, B) CH<sub>3</sub>CN  
 B 0 % (0.0 min) -> 2 % (0.1 min) -> 3 % (2.0 min) -> 15 % (4.0 min)  
 -> 20 % (10.0 min) -> 20 % (12.9 min) -> 0 % (13.0 min) 0 %  
 (14.5 min)  
 Flow rate : 1 mL/min  
 Temperature : 40 °C  
 Detection : UV 254 nm  
 Inj. vol. : 7 µL  
 Sample dissolved in : Refer to the page, "Preparation of hydrophilic vitamin solutions".  
 (Final concentrations should be changed as needed.)  
 ※ 1 µg/mL = 1 ppm



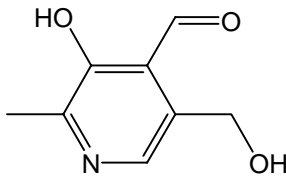
1. Ascorbic acid



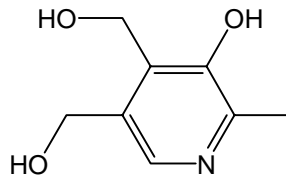
2. Nicotinic acid



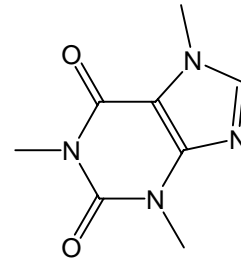
3. Thiamine



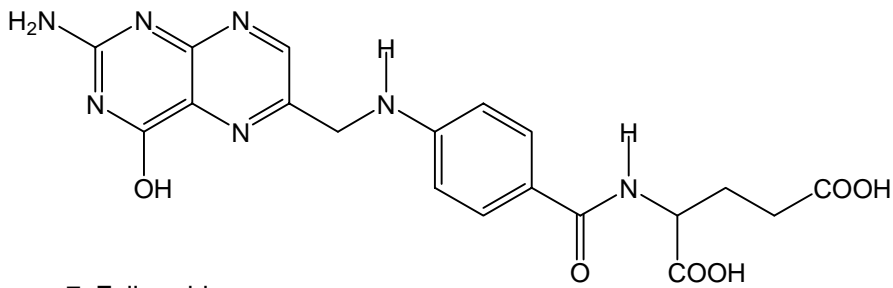
4. Pyridoxal



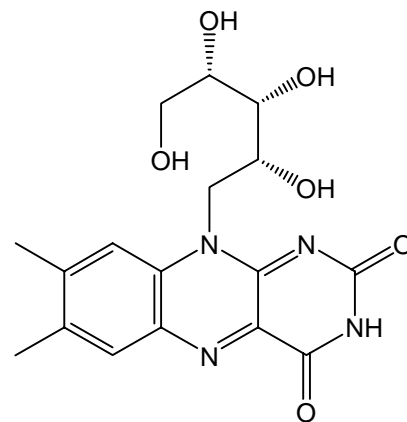
5. Pyridoxine



6. Caffeine



7. Folic acid



8. Riboflavin