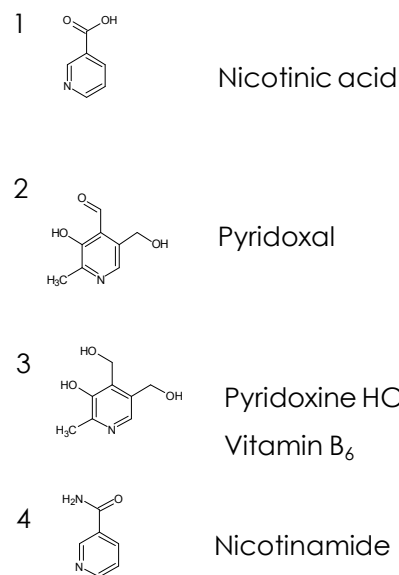
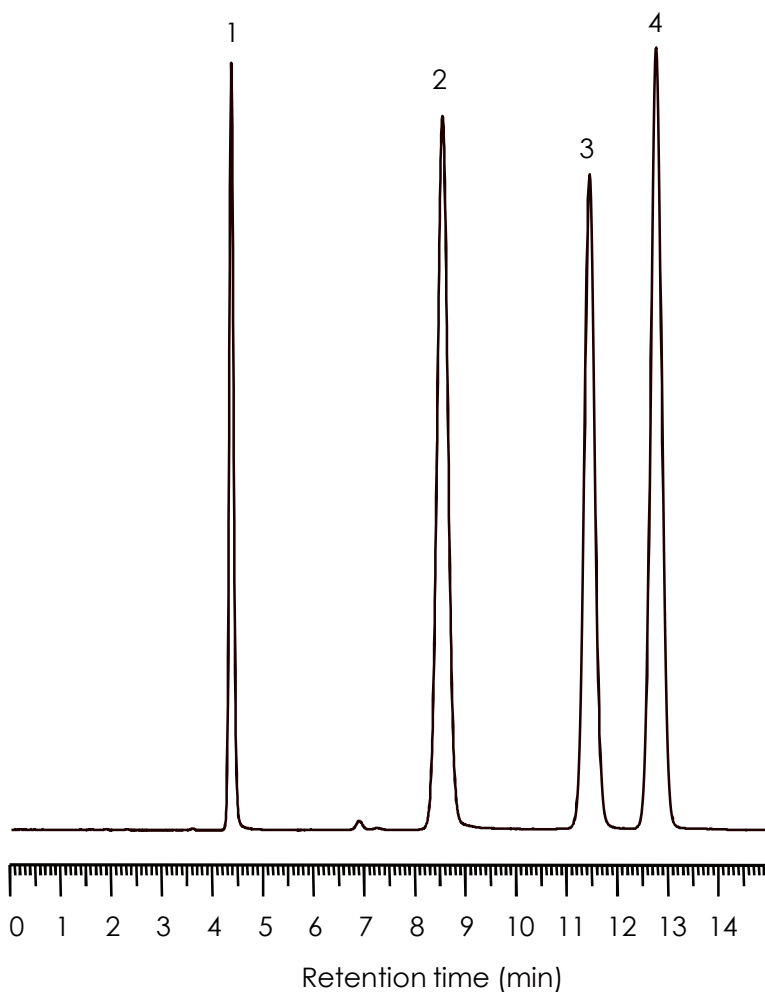


水溶性ビタミン類 II

Water-soluble vitamins II

Sunniest RP-AQUA 5 μ m150 x 4.6 mm i.d.



Column: Sunniest RP-AQUA 5 μ m, 150 x 4.6 mm i.d.

Mobile phase: 40mM Phosphate buffer pH6.8

Flow rate: 1.0 mL/min

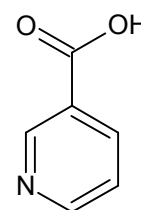
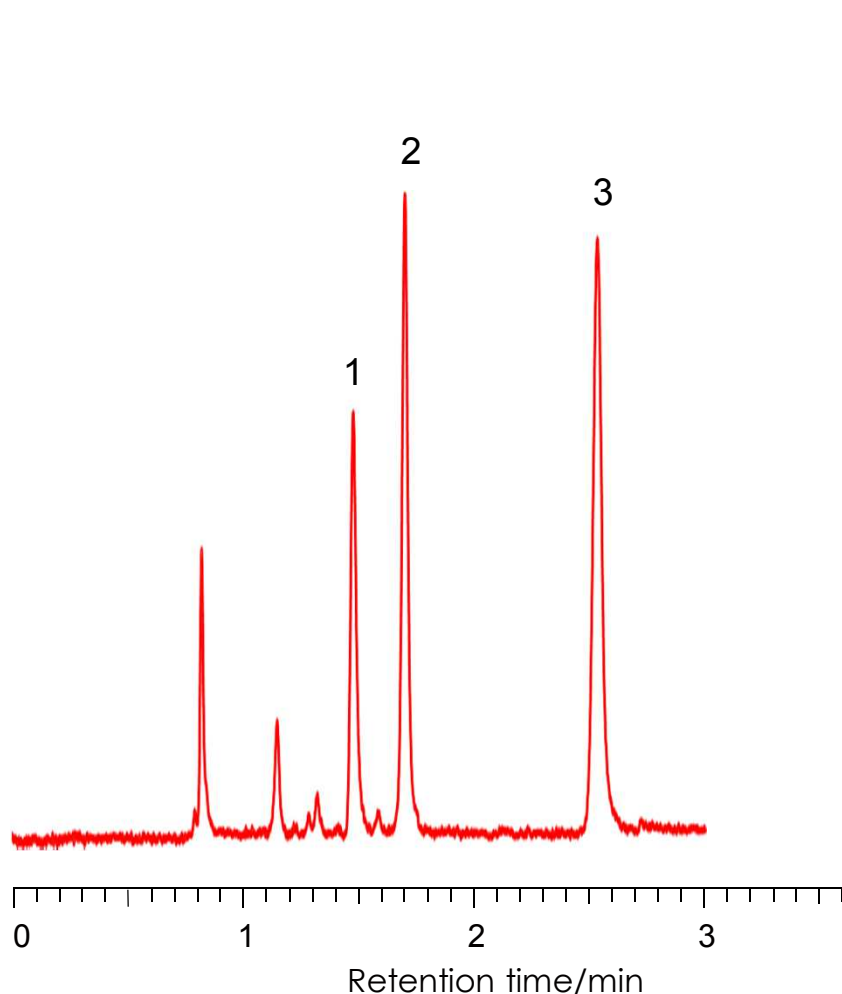
Temperature: 40 °C

Detection: UV@250 nm

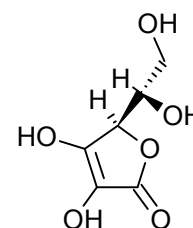
水溶性ビタミンの分離

Water- soluble vitamins

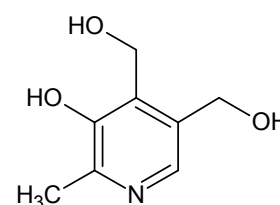
SunShell HILIC-Amide 2.6 μ m, 100 x 4.6 mm i.d.



1. Nicotinic acid



2. Ascorbic acid



3. Pyridoxine

Column:

SunShell HILIC-Amide 2.6 μ m, 100 x 4.6 mm,

Mobile phase: acetonitrile: 25 mM phosphate buffer (pH2.5) =8:2

Flow rate: 1.0 mL/min

Temperature: 40 $^{\circ}$ C

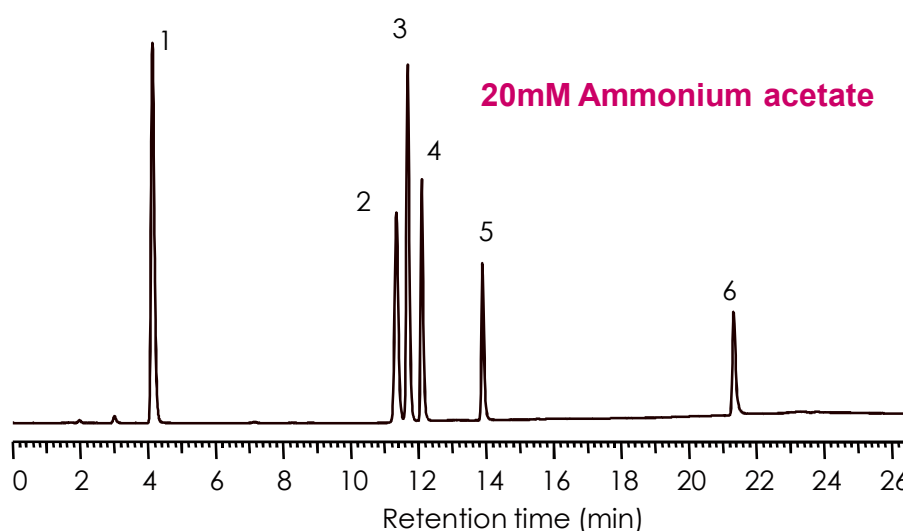
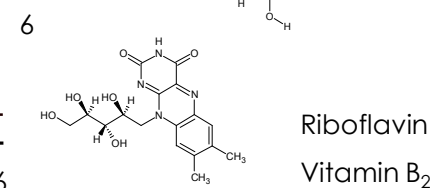
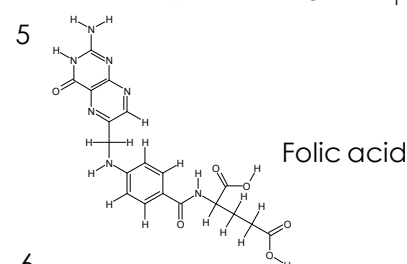
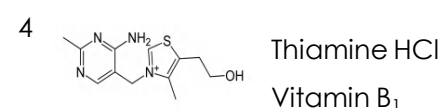
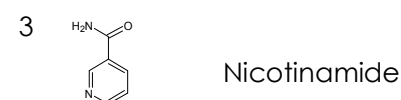
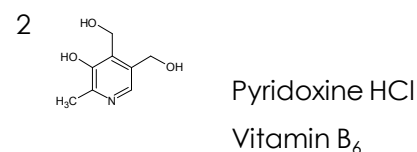
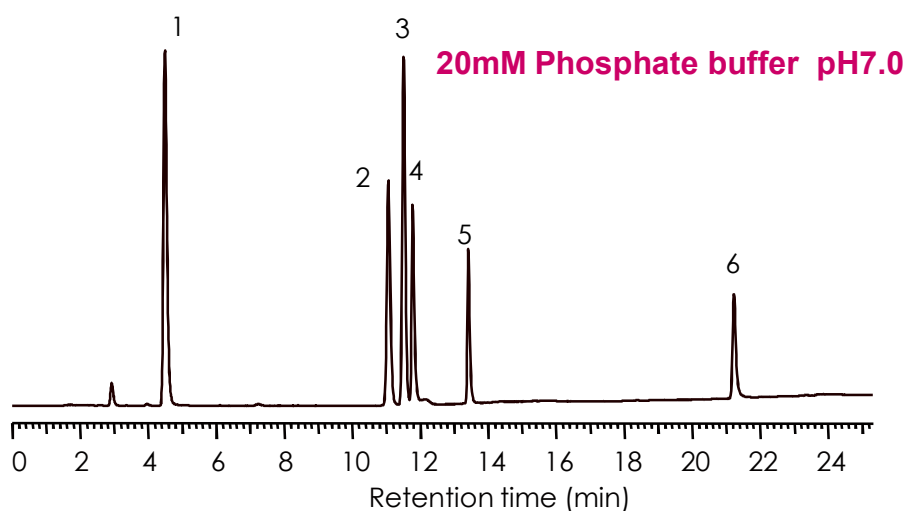
Detection: UV@250 nm

Sample: 1 = Nicotinic acid, 2 = Ascorbic acid, 3 = Pyridoxine

水溶性ビタミン類

Water-soluble vitamins

Sunniest RP-AQUA 5 μ m, 150 x 4.6 mm i.d.



Column: Sunniest RP-AQUA 5 μ m, 150 x 4.6 mm i.d.

Mobile phase: A) 20mM Phosphate buffer pH7.0 or 20mM Ammonium acetate

B) Acetonitrile/ A solution (20:80)

Time (min)	0	5	20	25
%B	0	0	100	100

Flow rate: 1.0 mL/min

Temperature: 40 °C

Detection: UV@250 nm

Injection volume: 10 μ L

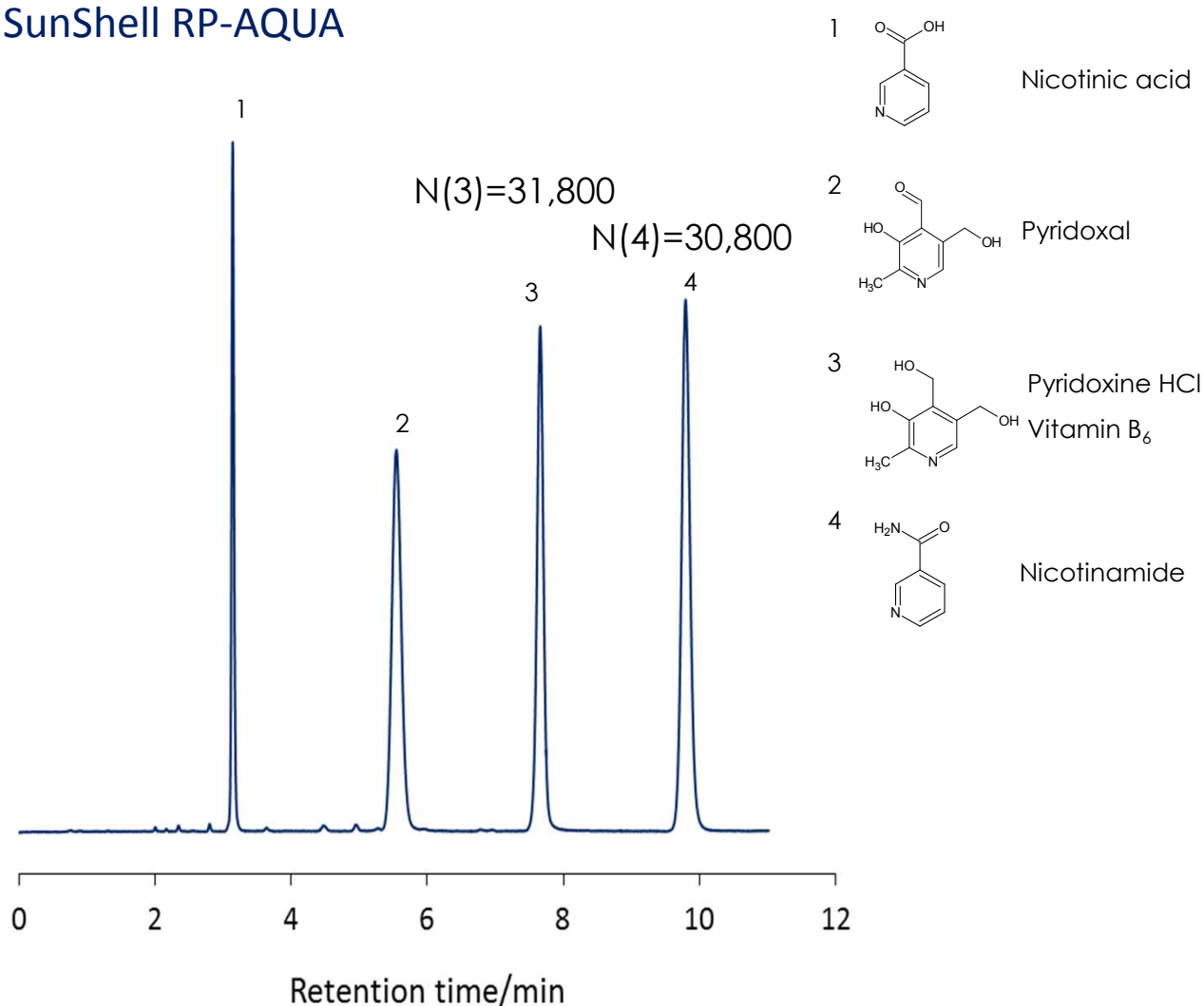
★LC/MS用の移動相（酢酸アンモニウム）でもリン酸緩衝液と同じ分離

水溶性ビタミン類Ⅲ

Water-soluble vitamins III

SunShell RP-AQUA 2.6 μm , 150 x 4.6 mm i.d.

SunShell RP-AQUA



Column: SunShell RP-AQUA 2.6 μm , 150 x 4.6 mm i.d.

Mobile phase: 40mM Phosphate buffer pH6.8

Flow rate: 1.0 mL/min

Temperature: 40 °C

Detection: UV@250 nm

Sample: 1 = Nicotinic acid, 2 = Pyridoxal, 3 = Pyridoxine HCl, 4 = Nicotinamide

UHPLC: X-LC (Jasco)