

Nardis ND-RX

Unison UK-Phenyl

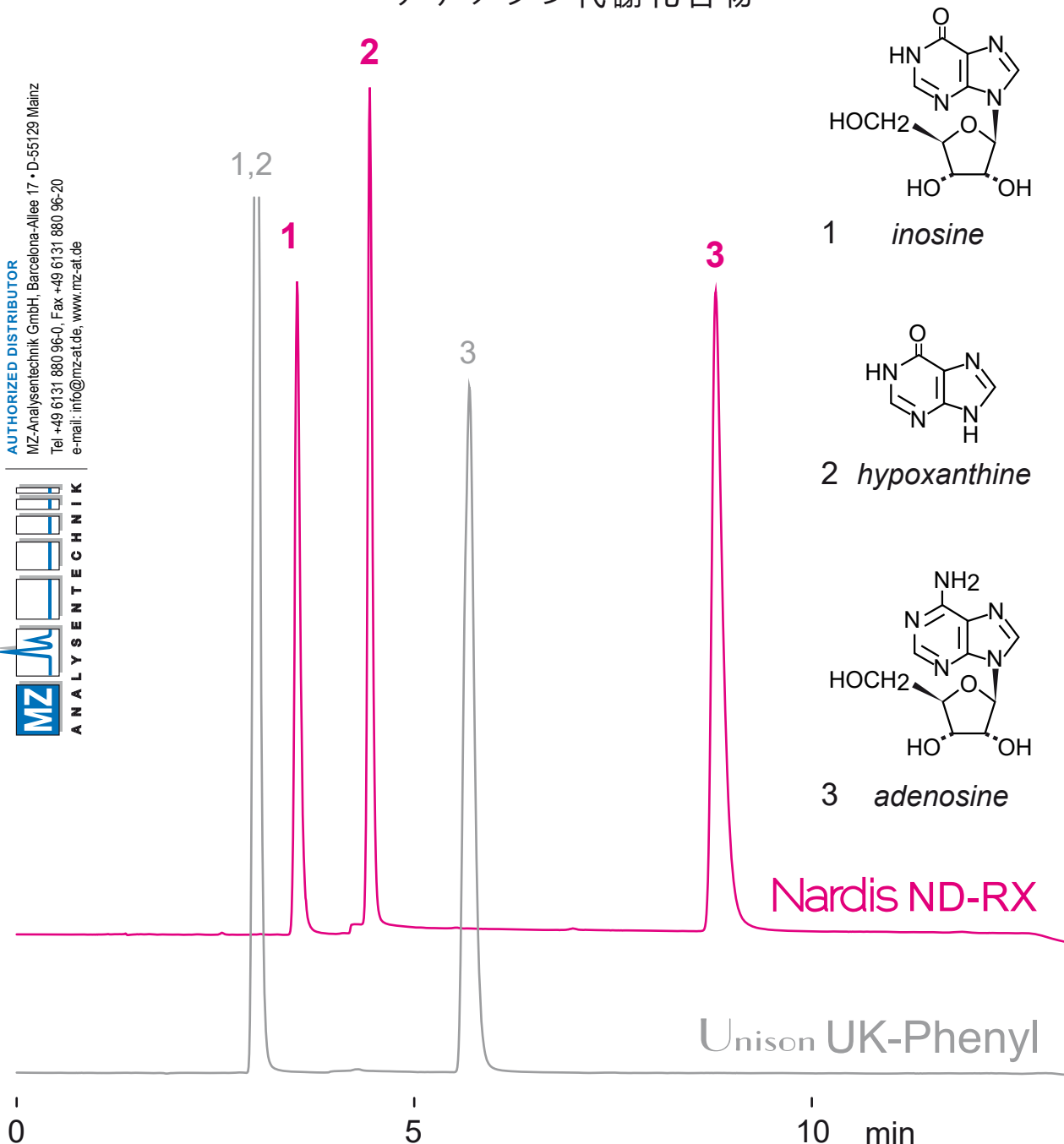
150 x 4.6 mm

HPLC COLUMN APPLICATION

Adenosine metabolites

アデノシン代謝化合物

AUTHORIZED DISTRIBUTOR
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150 x 4.6 mm

A: 10mM ammonium formate

B: 20mM ammonium formate / acetonitrile = 50 / 50

0-10%B (0-10min)

1.0mL/min, 37°C, 260nm

10µL (30-60µg/mL)

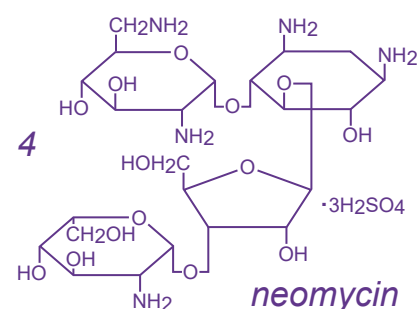
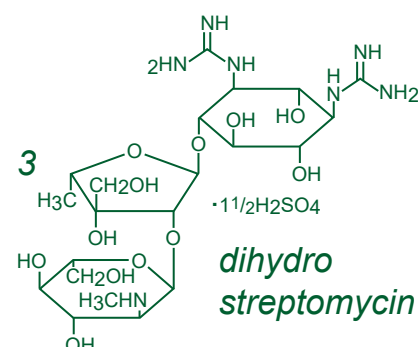
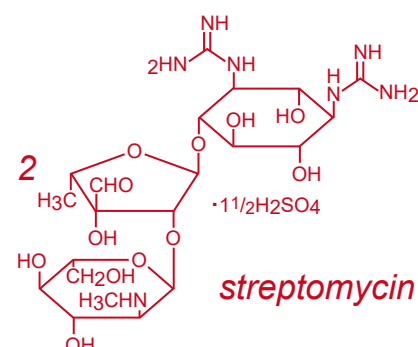
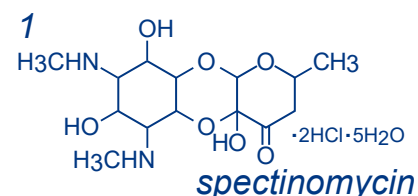
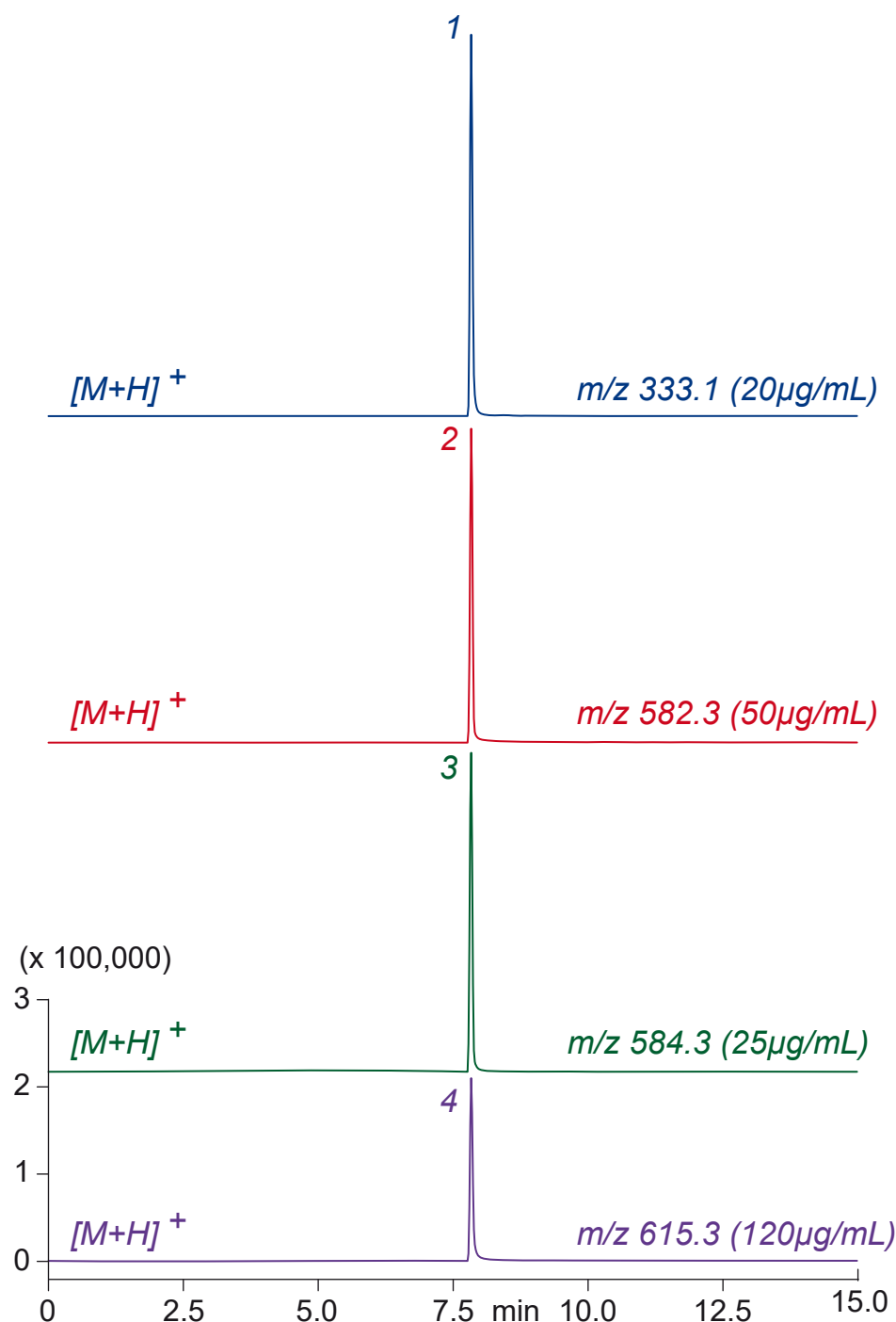
Nardis ND-RX

150 x 3 mm

HPLC COLUMN APPLICATION

LC-MS: Aminoglycoside antibiotics

アミノグリコシド系抗生物質の LC-MS 分析



Nardis ND-RX, 150 x 3 mm

A: 10mM ammonium formate

B: acetonitrile / water / formic acid = 20 / 80 / 0.5

0-50%B (0-15min)

0.4mL/min (8MPa), 37°C, Single Quad. MS (ESI)

10µL (20-120µg/mL, 100mM ammonium formate)

Nardis ND-RX

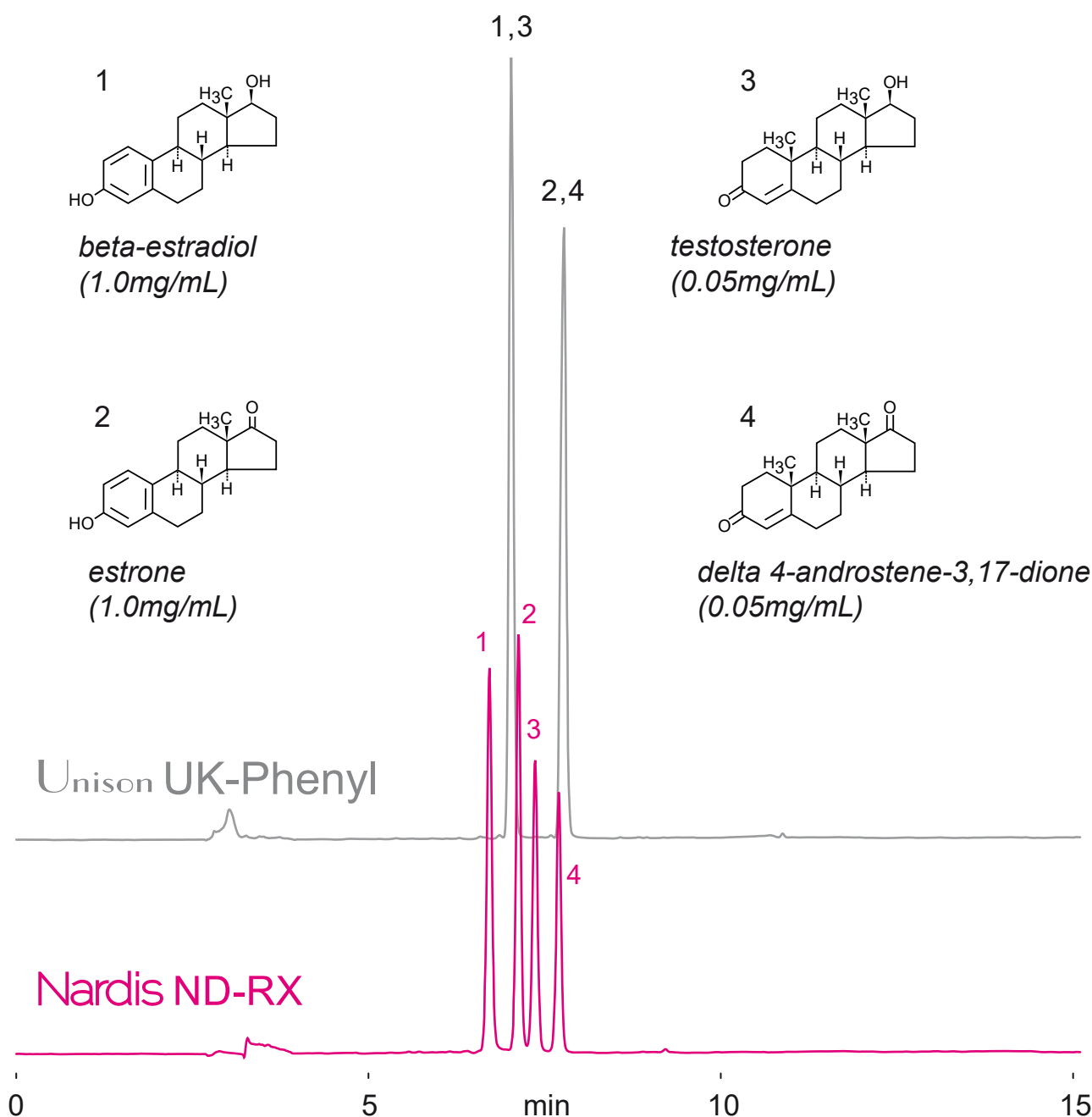
Unison UK-Phenyl

250 x 4.6 mm

HPLC COLUMN APPLICATION

Androstenedione biosynthetic pathway

アンドロステンジオン生合成経路



250 x 4.6 mm

A: water / acetic acid = 100 / 0.5

B: acetonitrile / acetic acid = 100 / 0.5

40-100%B (0-15min)

1.0mL/min (15 MPa) , 37°C, 260nm

10μL (0.05-1mg/mL, ethanol / dimethyl sulfoxide = 60 / 40)

Nardis ND-RX

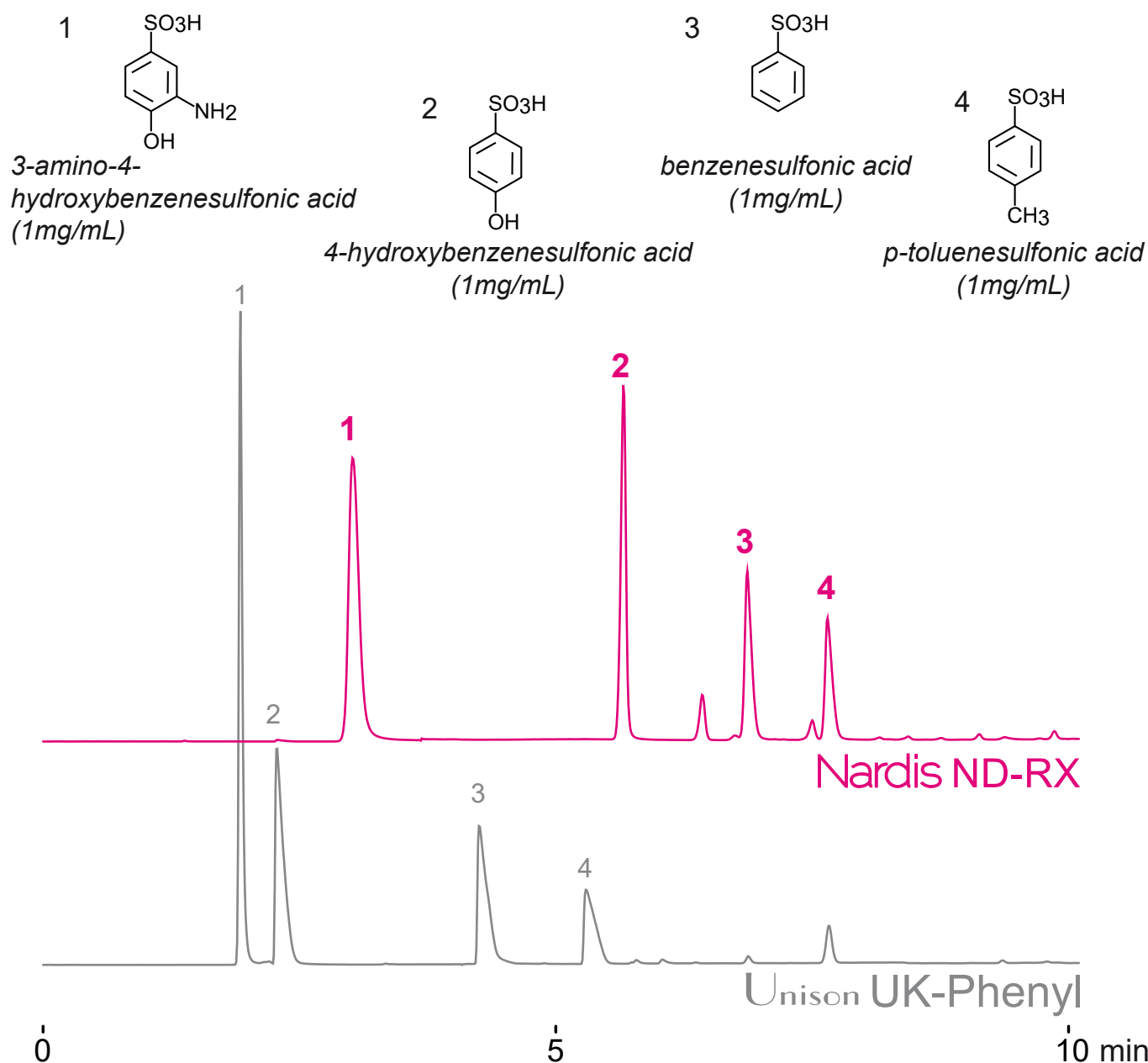
Unison UK-Phenyl

150 x 4.6 mm

HPLC COLUMN APPLICATION

Benzenesulfonic acid related compounds

ベンゼンスルホン酸関連化合物の分析



150 x 4.6 mm

A: water / formic acid = 100 / 0.1

B: 100mM ammonium formate / acetonitrile = 50 / 50

0-100%B (0-10min)

1.0mL/min (11 MPa) , 37°C, 260nm

10μL (1mg/mL, water/formic acid=100/1)

Nardis ND-RX

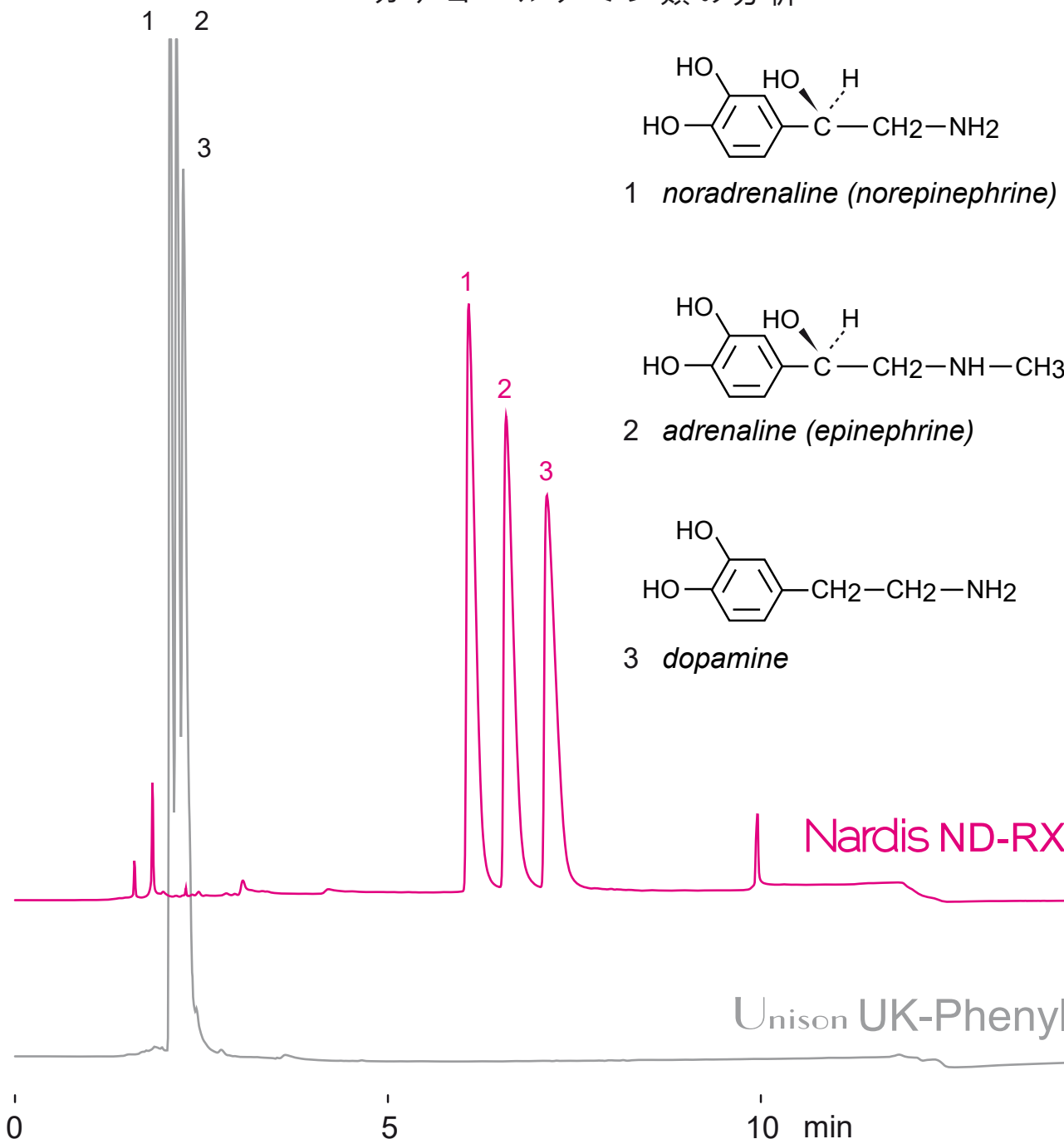
Unison UK-Phenyl

150 x 4.6 mm

HPLC COLUMN APPLICATION

Catecholamines

カテコールアミン類の分析



150 x 4.6 mm

A: 10mM ammonium acetate / acetonitrile = 90 / 10

B: 50mM ammonium acetate-acetic acid (5:5, pH 4.7) / acetonitrile = 70 / 30

0 -100%B (0 -10 min), 1.0 mL/min, 37°C, 260nm

10 µL (1.0mg/mL, water/HCOOH=100/1)

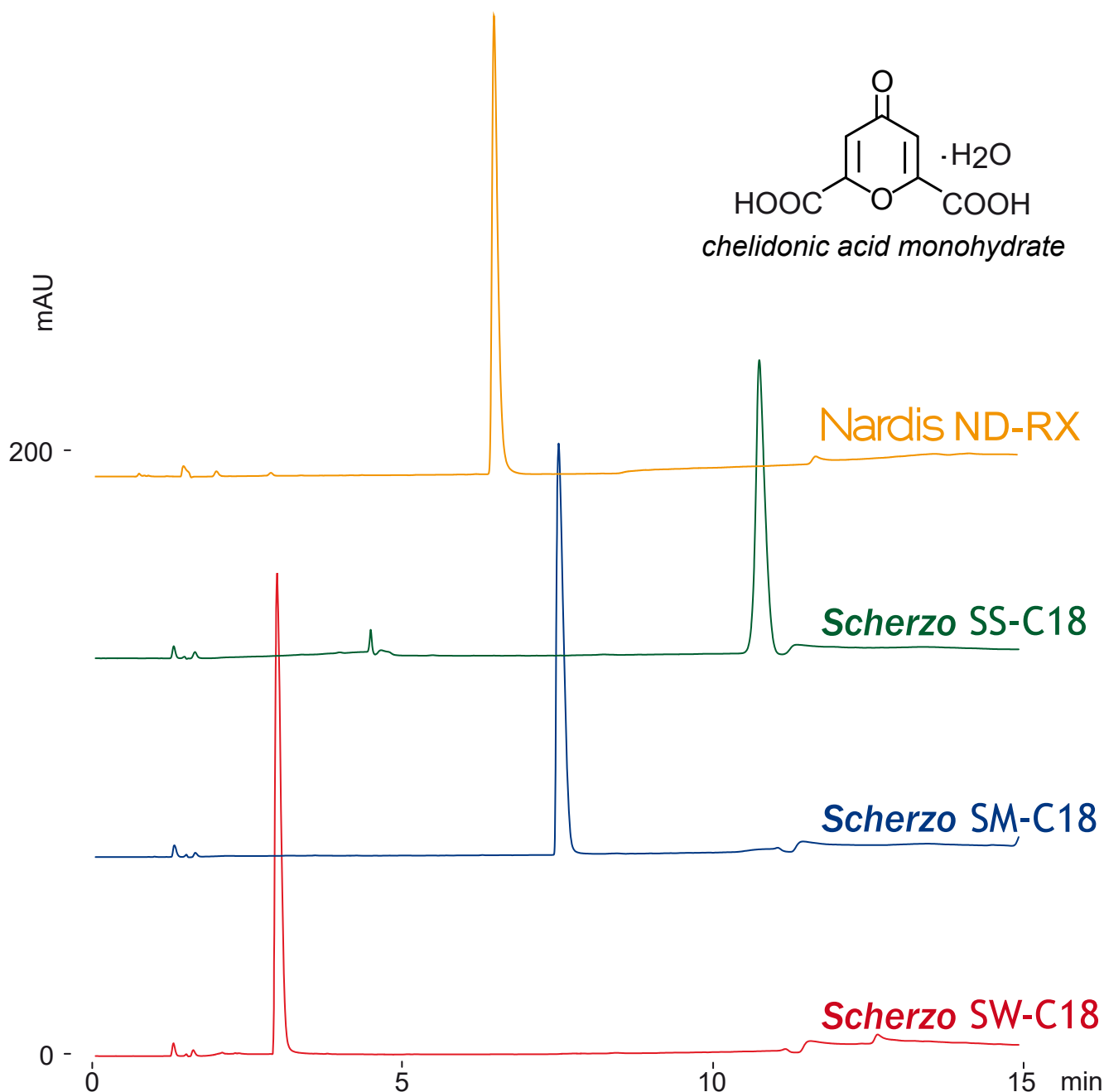
Scherzo SM-C18 Nardis ND-RX

Scherzo SW-C18 Scherzo SS-C18 100 x 4.6 mm

HPLC COLUMN APPLICATION

Chelidonic acid (Dicarboxylic acid)

ケリドン酸 (ジカルボン酸)



100 x 4.6 mm

A: water / acetonitrile / formic acid = 90 / 10 / 0.1

B: 100mM ammonium formate / acetonitrile = 50 / 50

0-100%B (0-12min), 100%B (12-15min)

1.0 mL/min (9MPa), 37°C, 260nm

10μL (0.1mg/mL, water / formic acid = 100 / 1)

Nardis ND-RX

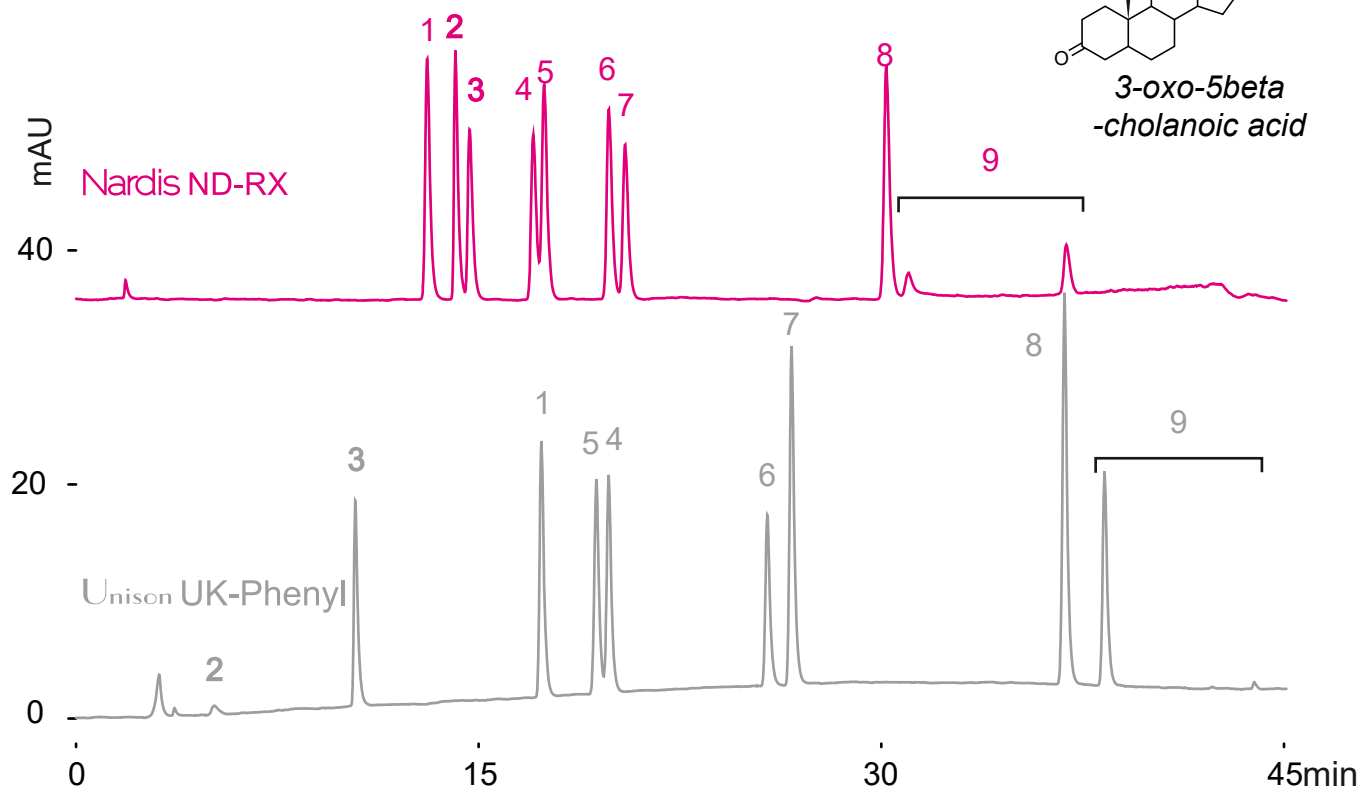
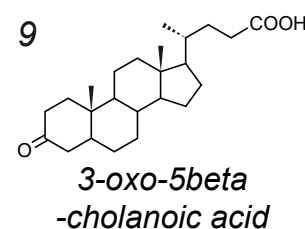
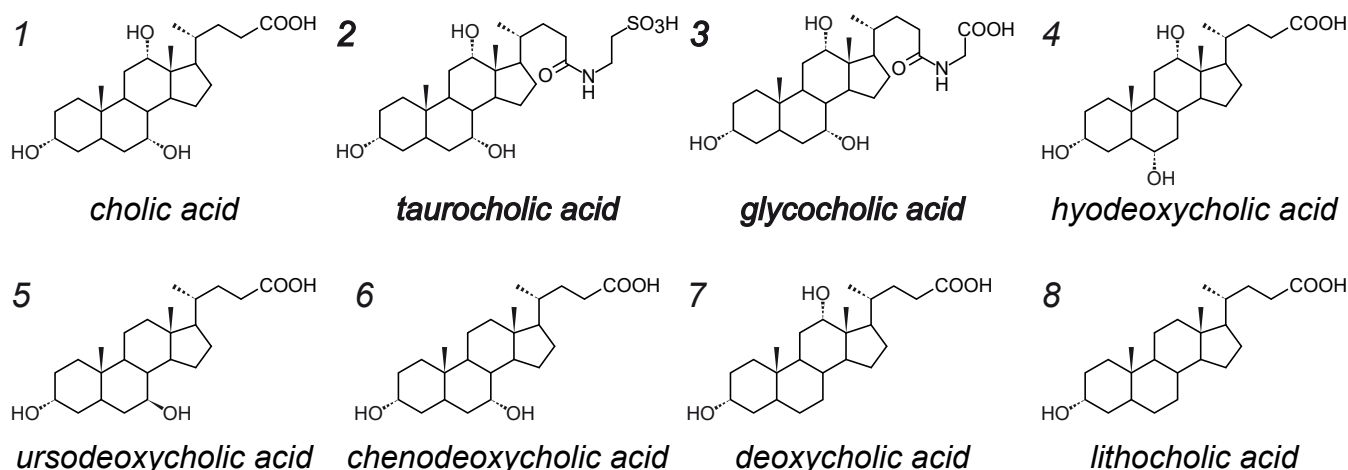
Unison UK-Phenyl

250 x 4.6 mm

HPLC COLUMN APPLICATION

Cholane derivatives (Cholanic acids)

コラン誘導体（コラン酸）の分析



250 x 4.6 mm

A: water / acetonitrile / acetic acid = 70 / 30 / 0.5

B: 100mM ammonium acetate / acetonitrile = 50 / 50

0 -100%B (0 -40 min), 100%B (40 -45 min)

1.0 mL/min (17 MPa) , 37°C, ELSD (spray chamber 70°C, drift chamber 100°C)

10 µL (1mg/mL, methanol)

Scherzo SM-C18

Scherzo SW-C18

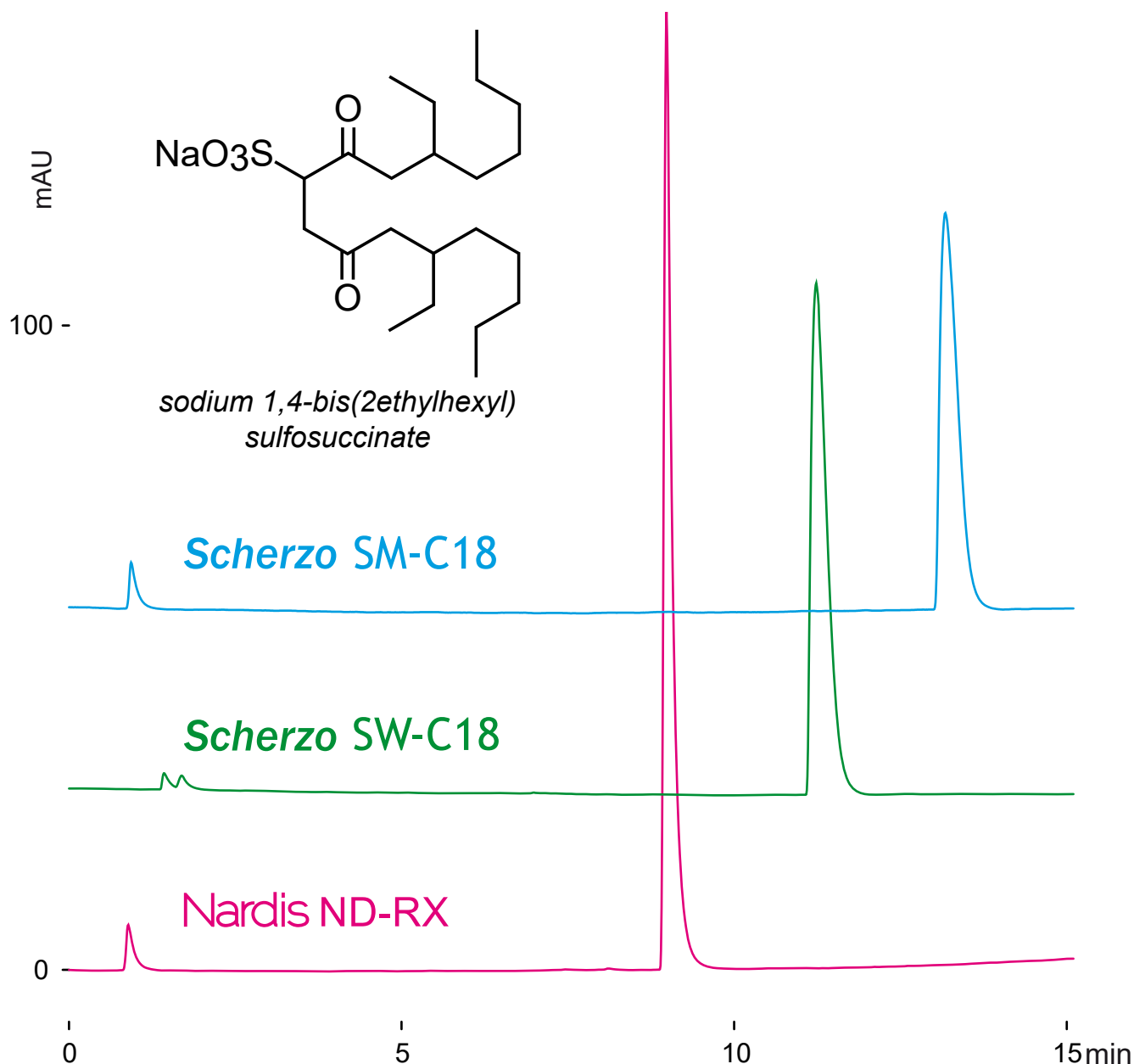
Nardis ND-RX

100 x 4.6 mm

HPLC COLUMN APPLICATION

Dioctyl slufosuccinate (Duble-tail anionic surfactant)

ジオクチルスルホコハク酸（二鎖型アニオン界面活性剤）の分析



100 x 4.6 mm

A: water / formic acid = 100 / 0.1

B: 100mM ammonium formate / acetonitrile = 25 / 75

0-100%B (0-10min), 100%B (10-15min)

1.0mL/min (8-10MPa), 37°C

ELSD (spray chamber 70°C, drift chamber 100°C)

10μL (2mg/mL, water/acetonitrile/formic acid=50/50/1)

Nardis ND-RX

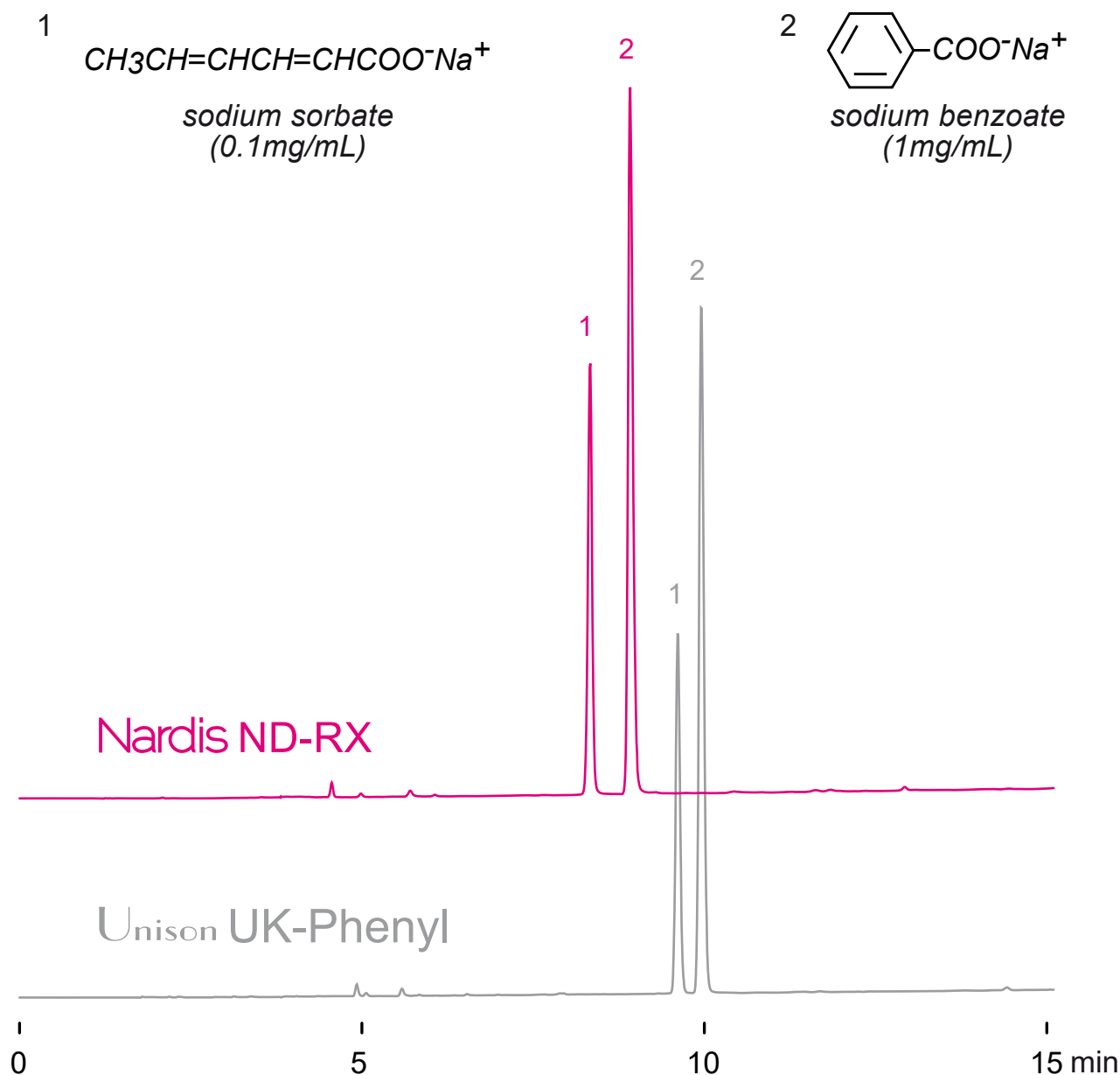
Unison UK-Phenyl

150 x 4.6 mm

HPLC COLUMN APPLICATION

Food preservatives

食品保存料の分析



150 x 4.6 mm

A: water / formic acid = 100 / 0.5

B: water / acetonitrile / formic acid = 50 / 50 / 0.5

0 -100%B (0 -15 min),

1.0 mL/min, 37°C, 260nm

10 μL (0.1-1.0mg/mL, water/HCOOH=100/1)

Nardis ND-RX

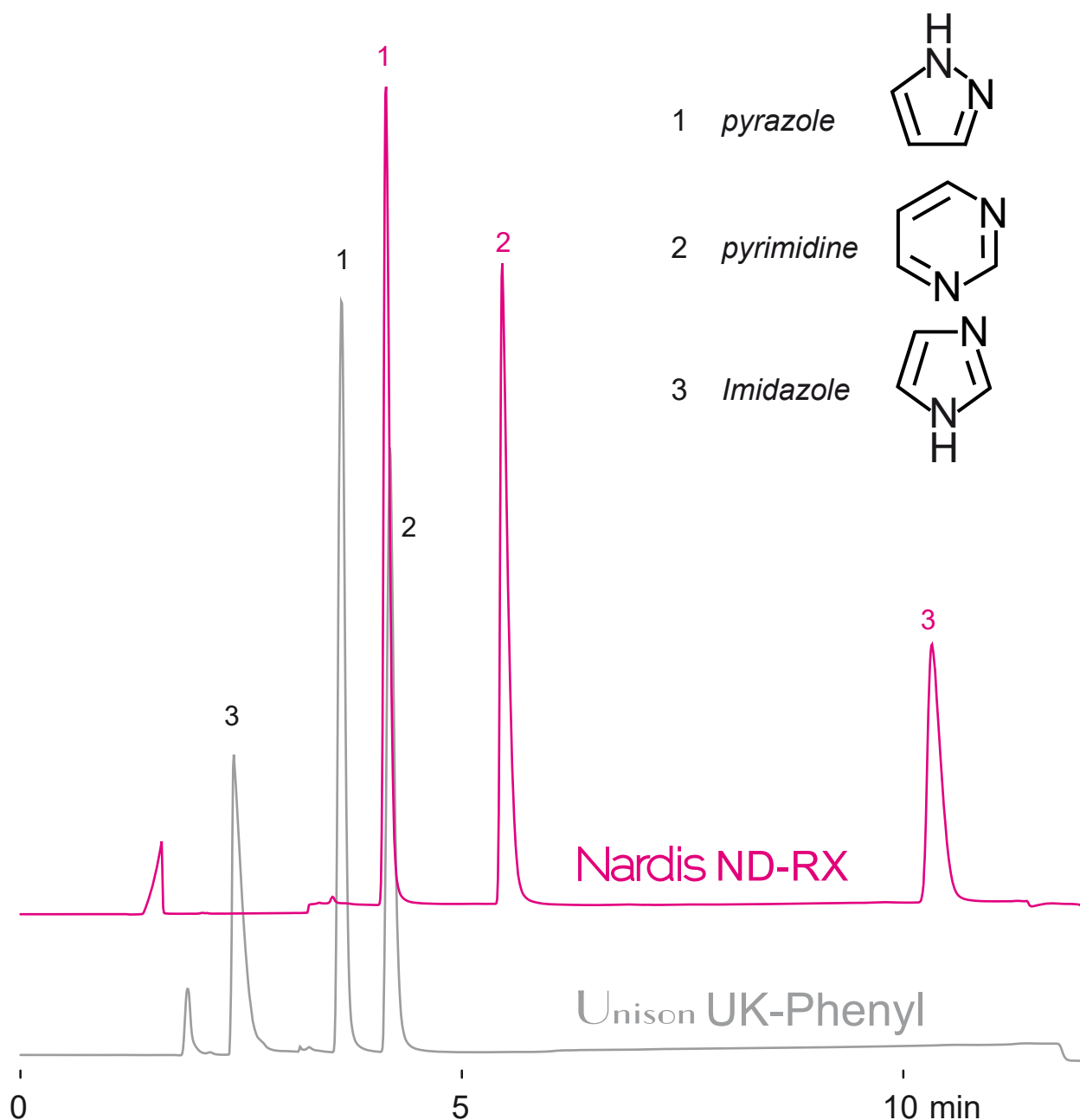
Unison UK-Phenyl

150 x 4.6 mm

HPLC COLUMN APPLICATION

Heterocyclic aromatic compounds

複素環式芳香族化合物



150 x 4.6 mm

A: 10mM ammonium formate

B: 20mM ammonium formate / acetonitrile = 50 / 50

0-50%B (0-10 min)

1.0 mL/min, 37°C, 225nm

10μL (1.0mg/mL, 100mM HCOONH₄)

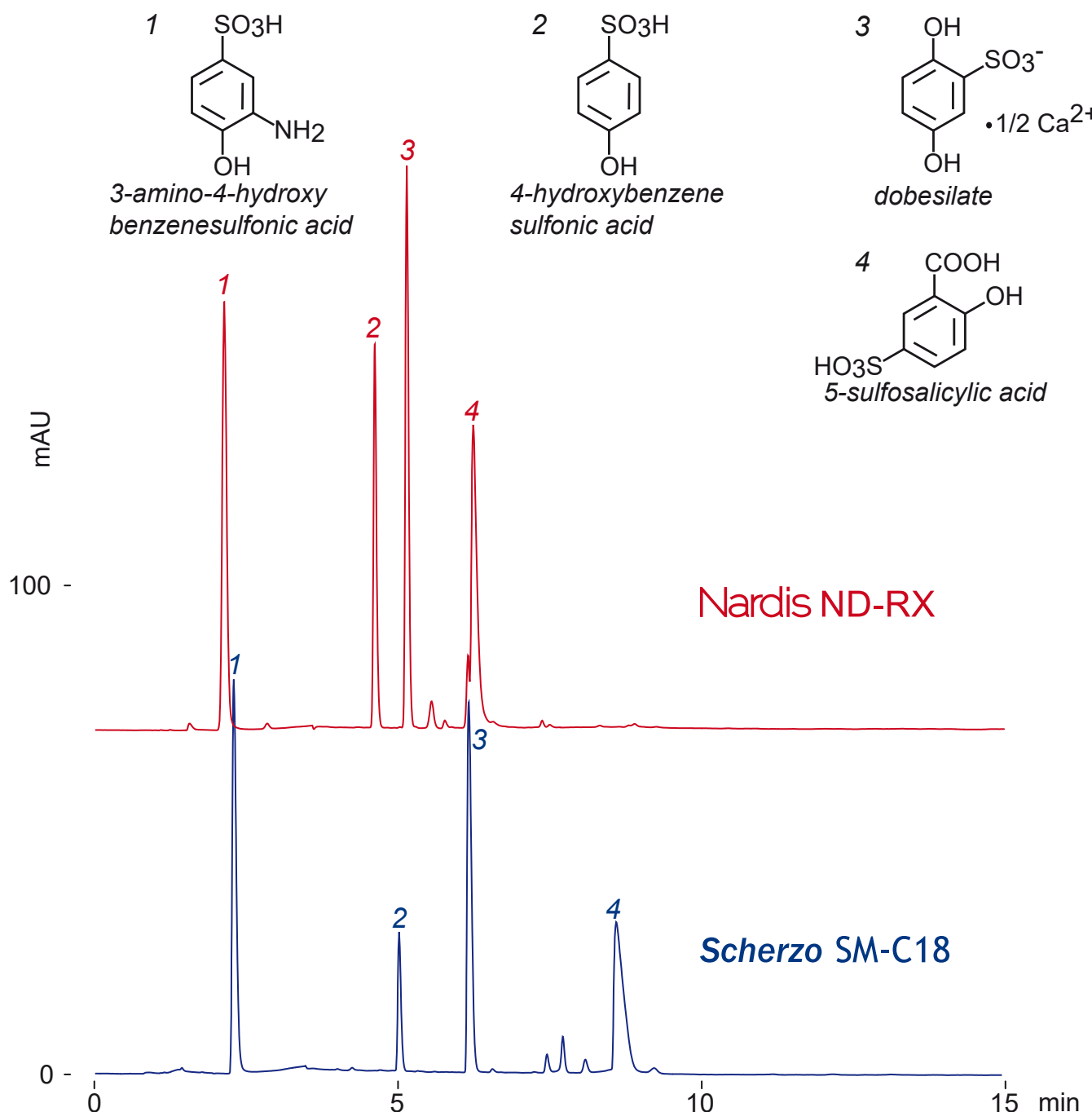
Nardis ND-RX
Scherzo SM-C18

100 x 4.6 mm

HPLC COLUMN APPLICATION

Hydroxybenzenedisulfonic acids

ヒドロキシベンゼンスルホン酸



A: water / formic acid = 100 / 0.1

B: acetonitrile / 100mM ammonium formate = 30 / 70

0%B (0-1min), 0-100%B (1-7min), 100%B (7-15min)

1.0mL/min (9MPa), 37°C, 280nm

10μL (0.25mg/mL, water / formic acid = 100 / 0.1)

Nardis ND-RX

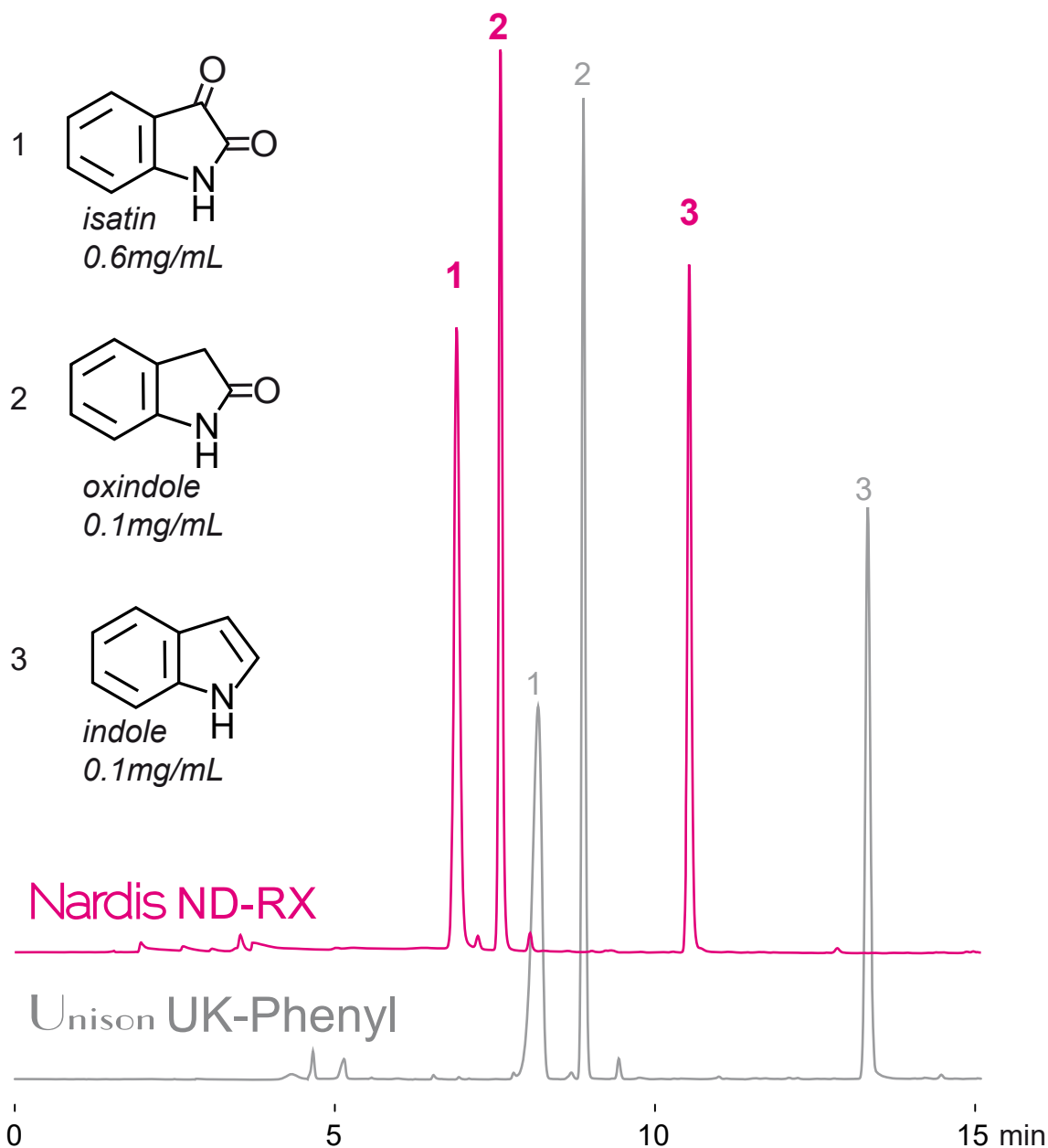
Unison UK-Phenyl

150 x 4.6 mm

HPLC COLUMN APPLICATION

Indole derivatives

インドール誘導体



150 x 4.6 mm

A: 10mM ammonium formate

B: 100mM ammonium formate / acetonitrile = 10 / 90

0-60%B (0-15min)

1.0mL/min (10-12MPa), 37°C, 260nm

10μL (0.1-0.6mg/mL, 100mM HCOONH₄-HCOOH(1:9)/ ACN=70/30)

Nardis ND-RX

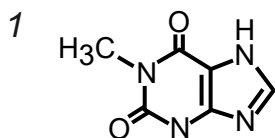
Unison UK-Phenyl

150 x 4.6 mm

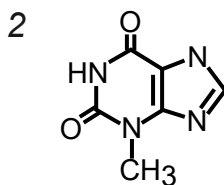
HPLC COLUMN APPLICATION

Methylxanthines

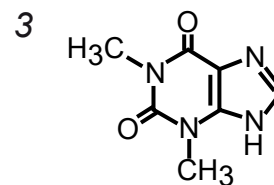
メチルキサンチン類



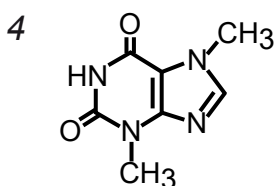
1-methylxanthine
(0.1mg/mL)



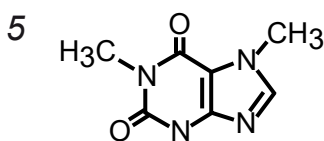
3-methylxanthine
(0.1mg/mL)



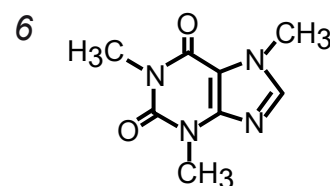
1,3-dimethylxanthine
(theophylline, 0.2mg/mL)



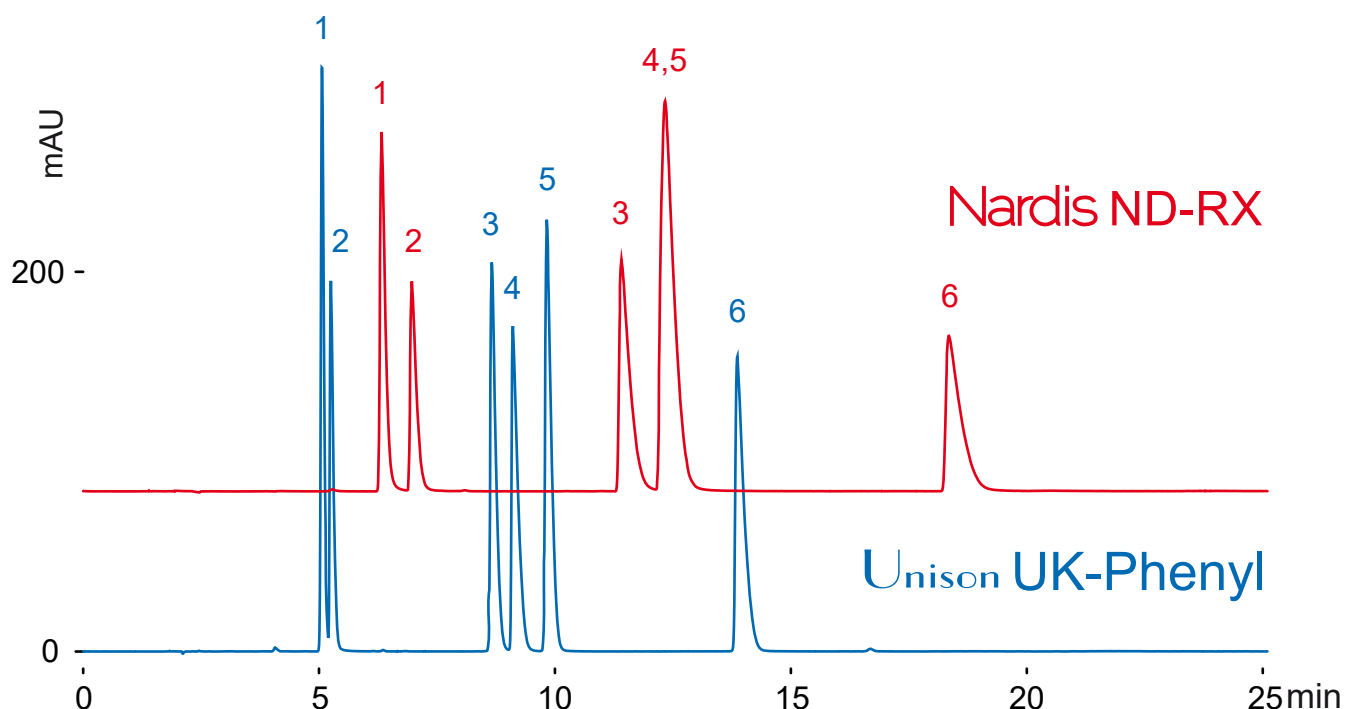
3,7-dimethylxanthine
(theobromine, 0.2mg/mL)



1,7-dimethylxanthine
(0.2mg/mL)



1,3,7-trimethylxanthine
(caffeine, 0.2mg/mL)



150 x 4.6 mm

A: water / formic acid = 100 / 0.1

B: 100mM ammonium formate / acetonitrile = 50 / 50

0-30%B (0-25min)

1.0mL/min (9MPa), 37°C, 260nm

10μL (0.1-0.2mg/mL, 0.1M ammonia solution)

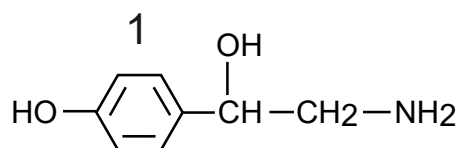
Nardis ND-RX
Nardis ND-NX

150 x 4.6 mm

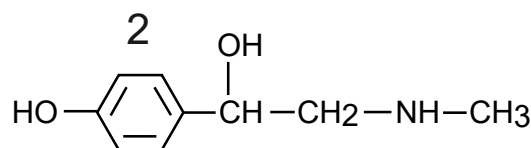
HPLC COLUMN APPLICATION

Adrenergic amines

アドレナリン作動性アミン

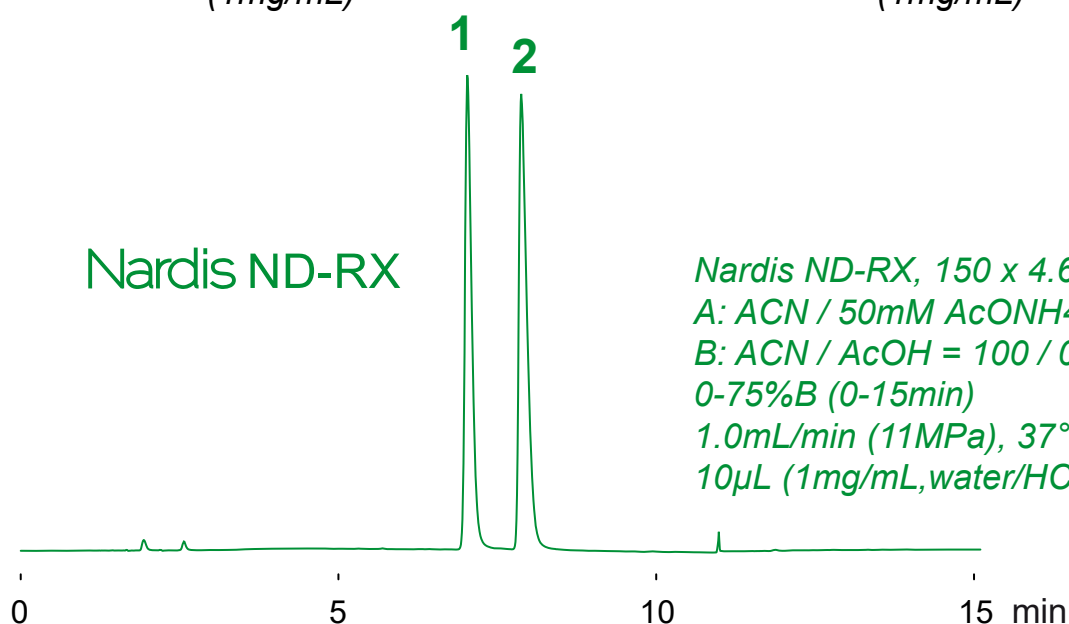


octopamine
(1mg/mL)



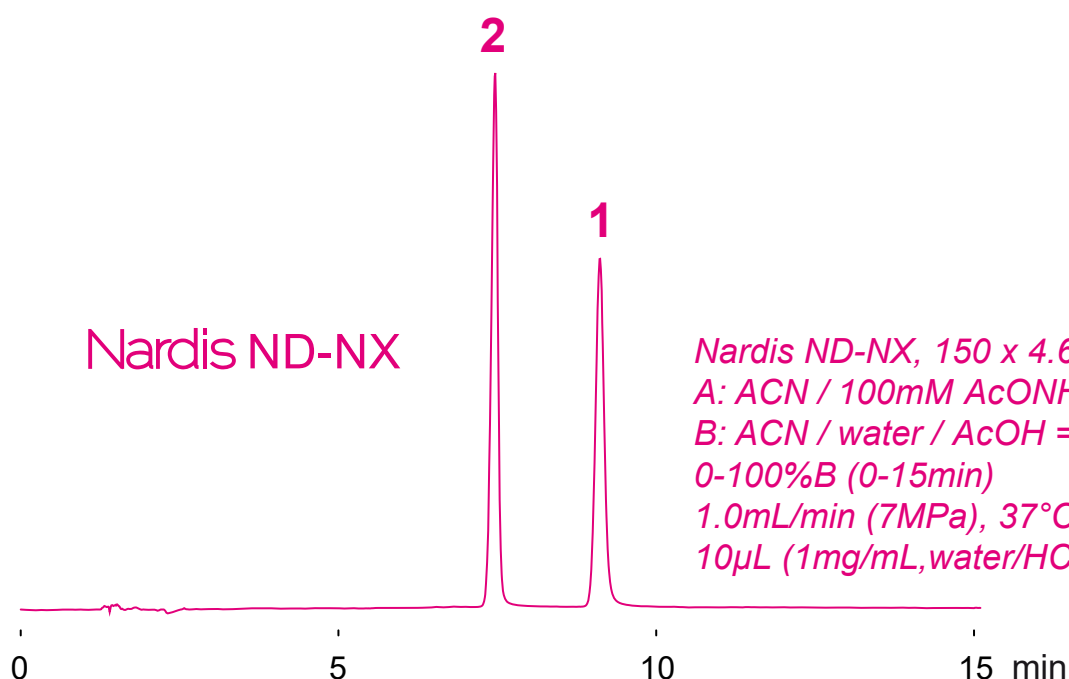
synephrine
(1mg/mL)

Nardis ND-RX



Nardis ND-RX, 150 x 4.6 mm
A: ACN / 50mM AcONH₄ = 5 / 95
B: ACN / AcOH = 100 / 0.5
0-75%B (0-15min)
1.0mL/min (11MPa), 37°C, 260nm
10μL (1mg/mL, water/HCOOH=100/0.1)

Nardis ND-NX



Nardis ND-NX, 150 x 4.6 mm
A: ACN / 100mM AcONH₄ = 70 / 30
B: ACN / water / AcOH = 20 / 80 / 0.5
0-100%B (0-15min)
1.0mL/min (7MPa), 37°C, 260nm
10μL (1mg/mL, water/HCOOH=100/0.1)

Unison UK-Phenyl

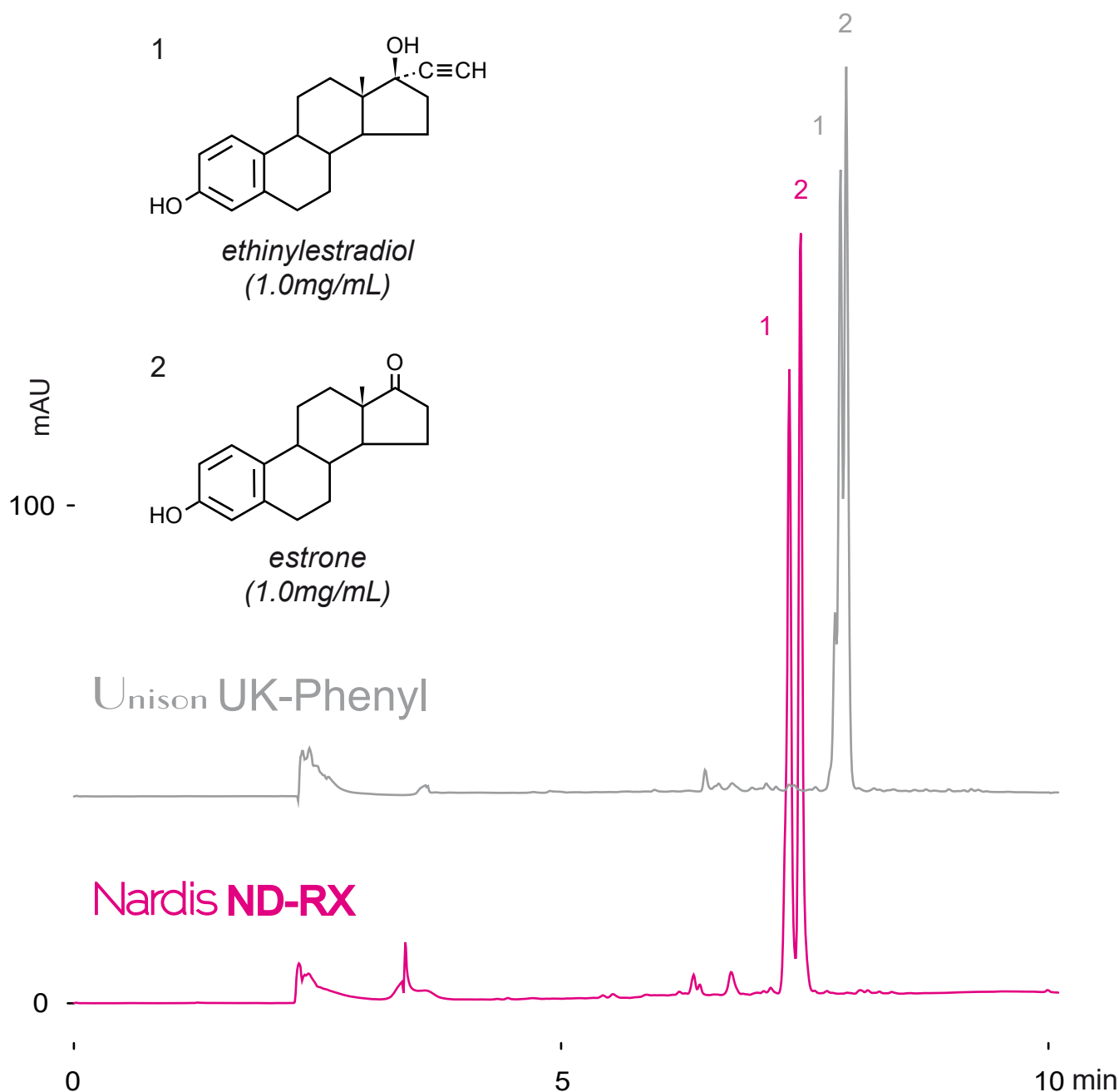
Nardis ND-RX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Steroid Hormones

ステロイドホルモン



150 x 4.6 mm

A: water / acetic acid = 100 / 0.5

B: acetonitrile / acetic acid = 100 / 0.5

0-100%B (0-10min)

1.0mL/min (9-10MPa), 37°C, 260nm

10μL (1mg/mL, DMSO)

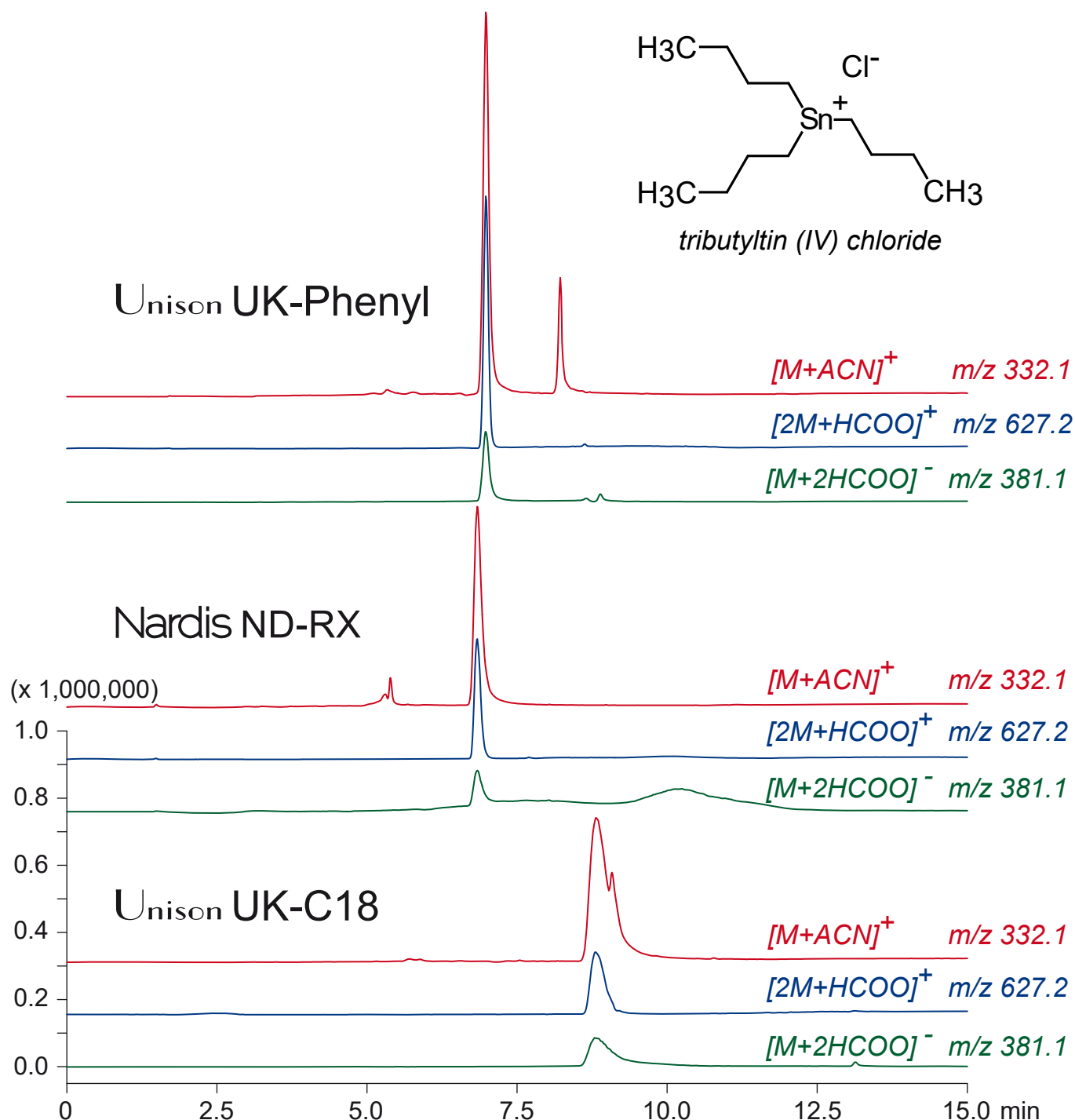
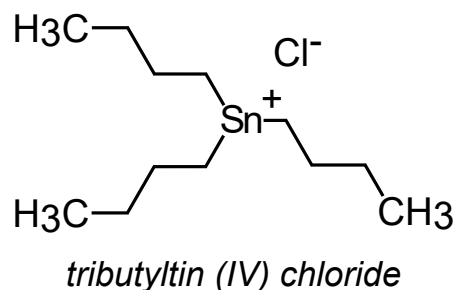
Unison UK-Phenyl
Nardis ND-RX
Unison UK-C18

100 x 3 mm

HPLC COLUMN APPLICATION

LC-MS: Tributyltin (IV) chloride (Antifouling biocides)

塩化トリブチルスズ (IV) (防汚殺生物剤) のLC-MS分析



100 x 3 mm

A: water / formic acid = 100 / 0.5

B: acetonitrile / formic acid = 100 / 0.5

0-100%B (0-10min), 100%B (10-15min)

0.4mL/min (6-7MPa), 37°C, Single Quad. MS (ESI)

5μL (10μg/mL, acetonitrile / water / formic acid = 50 / 50 / 0.1)

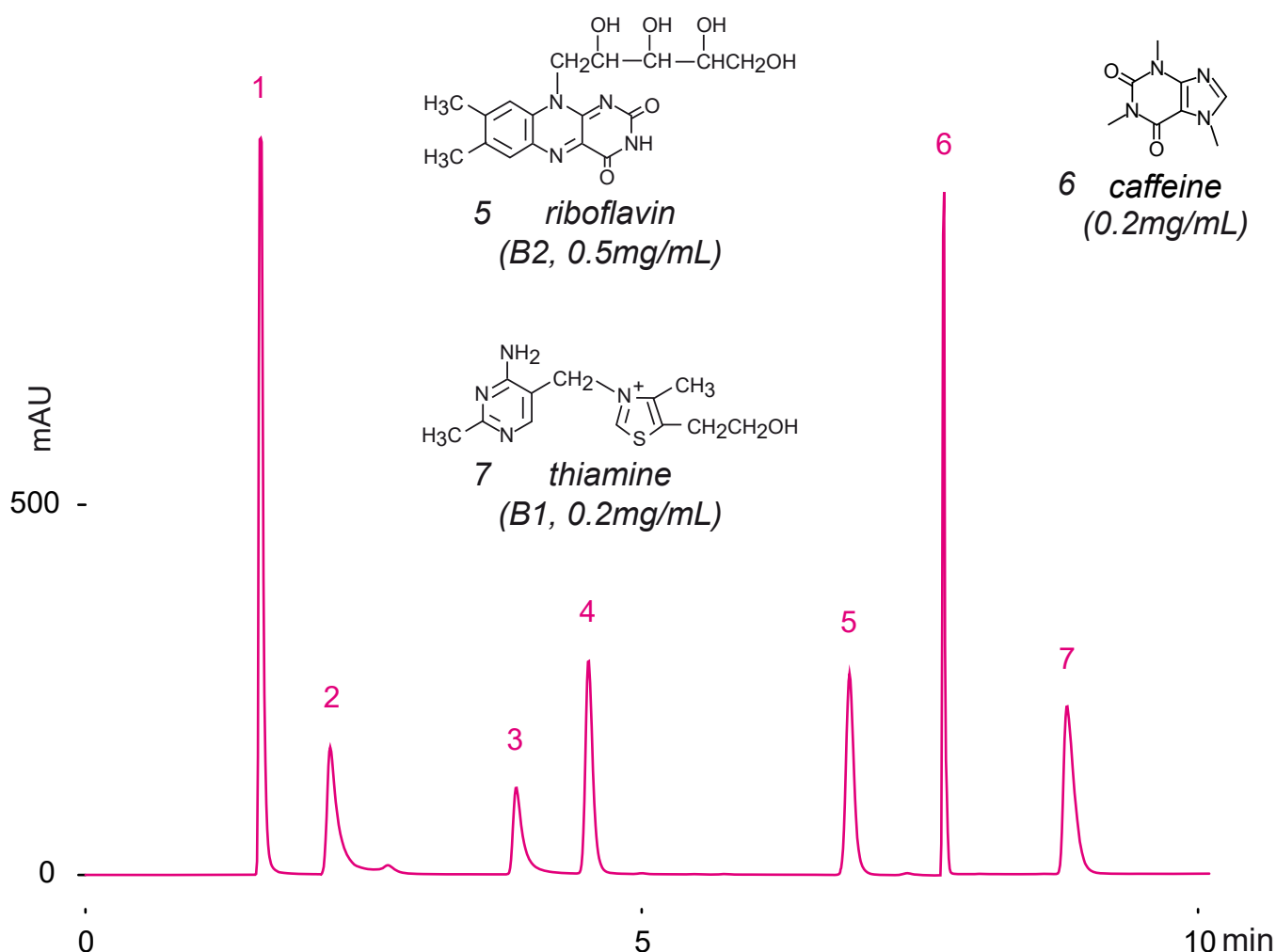
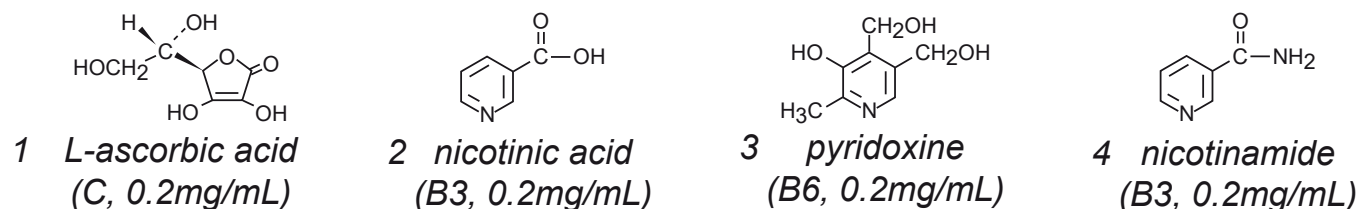
Nardis ND-RX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Water soluble vitamins

水溶性ビタミンの同時分析



Nardis ND-RX, 150 x 4.6 mm

A: acetonitrile / 50mM ammonium formate = 5 / 95

B: acetonitrile / water / formic acid = 50 / 50 / 0.5

0-50%B (0-10min)

1.0mL/min (10MPa), 37°C, 260nm

10μL (0.2-0.5mg/mL, water/ACN/DMSO=50/10/40)