

Nardis ND-NX

250 x 4.6 mm

HPLC COLUMN APPLICATION

Group separation of monosaccharides

単糖類のグループ分離

HEXOSE

- 5.glucose (0.5mg/mL)
- 6.galactose (0.5mg/mL)
- 7.mannose (0.5mg/mL)

PENTOSE

- 1.rhamnose (0.6mg/mL)
- 2.fucose (0.6mg/mL)
- 3.arabinose (0.6mg/mL)
- 4.xylose (0.6mg/mL)

URONIC ACID

- 8.glucuronic acid (1.5mg/mL)
- 9.galacturonic acid (1.5mg/mL)

AMINO SUGAR

- 10.glucosamine (1.5mg/mL)
- 11.galactosamine (1.5mg/mL)

1,2,3,4
5,6,7

8,9

10,11

0 10 20 30 min

Nardis ND-NX, 250 x 4.6 mm

A: acetonitrile / 100mM ammonium acetate = 95 / 5

B: acetonitrile / water / acetic acid = 10 / 90 / 0.8

0 -100%B (0 -20 min), 100%B (20 -30 min),

0.8 mL/min (5MPa), 60°C

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

10 µL (0.5-1.5mg/mL, water)

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 e-mail: info@mz-at.de, www.mz-at.de



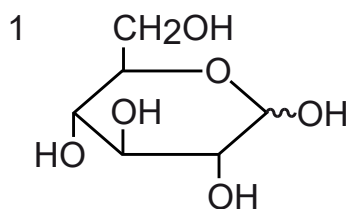
Nardis ND-NX

250 x 4.6 mm

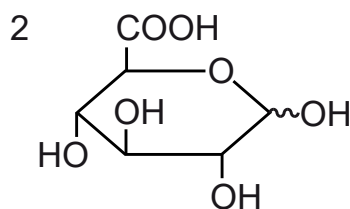
HPLC COLUMN APPLICATION

Glucose related compounds

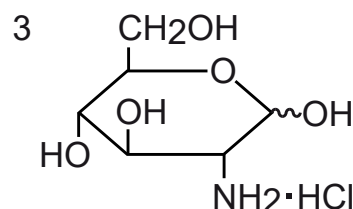
グルコース関連化合物



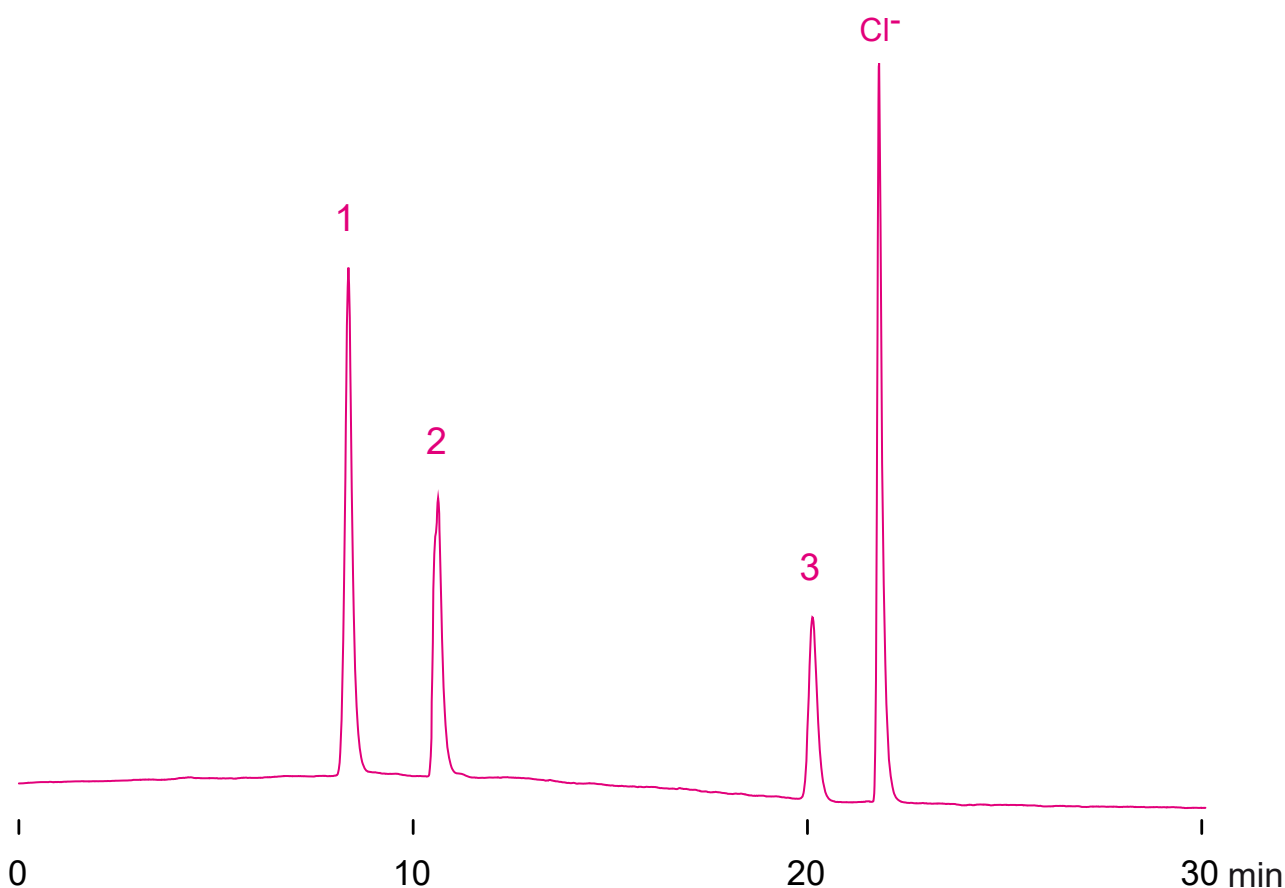
D-glucose
(Glc, 1mg/mL)



D-glucuronic acid
(1mg/mL)



D-glucosamine
(1mg/mL)



Nardis ND-NX, 250 x 4.6 mm

A: acetonitrile / 100mM ammonium acetate = 90 / 10

B: acetonitrile / water / acetic acid = 10 / 90 / 0.8

0-100%B (0-20min), 100%B (20-30min)

1.0mL/min (7MPa), 60°C

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

10μL (1mg/mL, 100mM ammonium acetate)

Nardis ND-NX

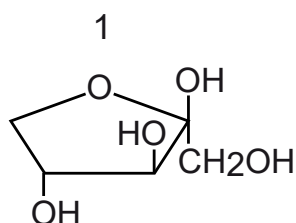
Unison UK-Amino

250 x 4.6 mm

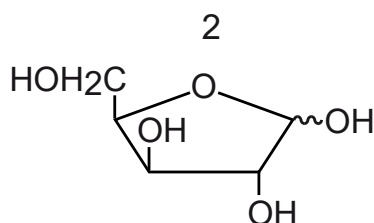
HPLC COLUMN APPLICATION

Xylulose, xylitol, xylose

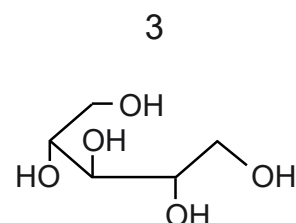
キシロース, キシリトール, キシロース



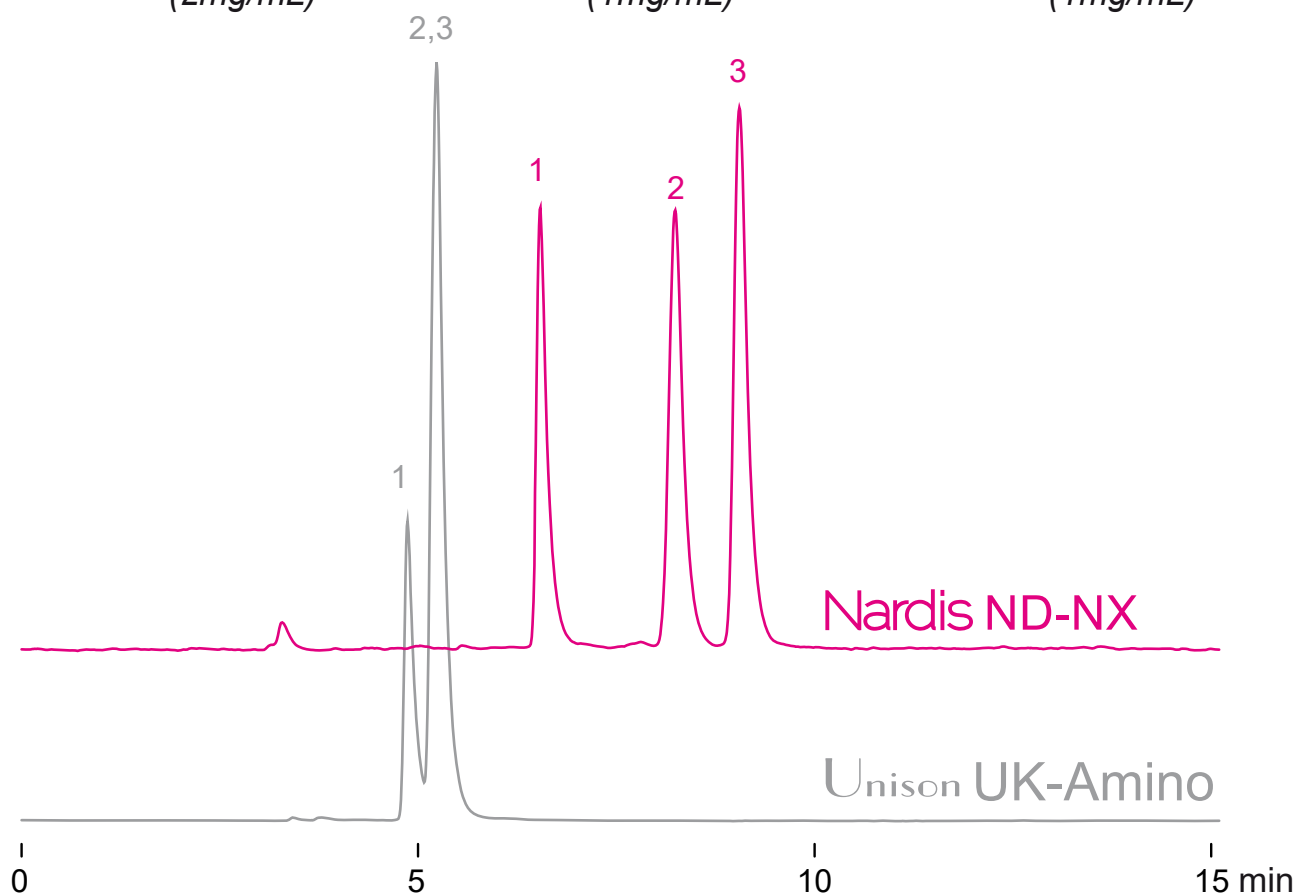
xylulose
(2mg/mL)



xylose
(1mg/mL)



xylitol
(1mg/mL)



250 x 4.6 mm

A: acetonitrile

B: acetonitrile / 10mM ammonium acetate = 50 / 50

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

0.8 mL/min (8 MPa) , 60°C

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

10 μ L (1-2mg/mL, water)

Nardis ND-NX

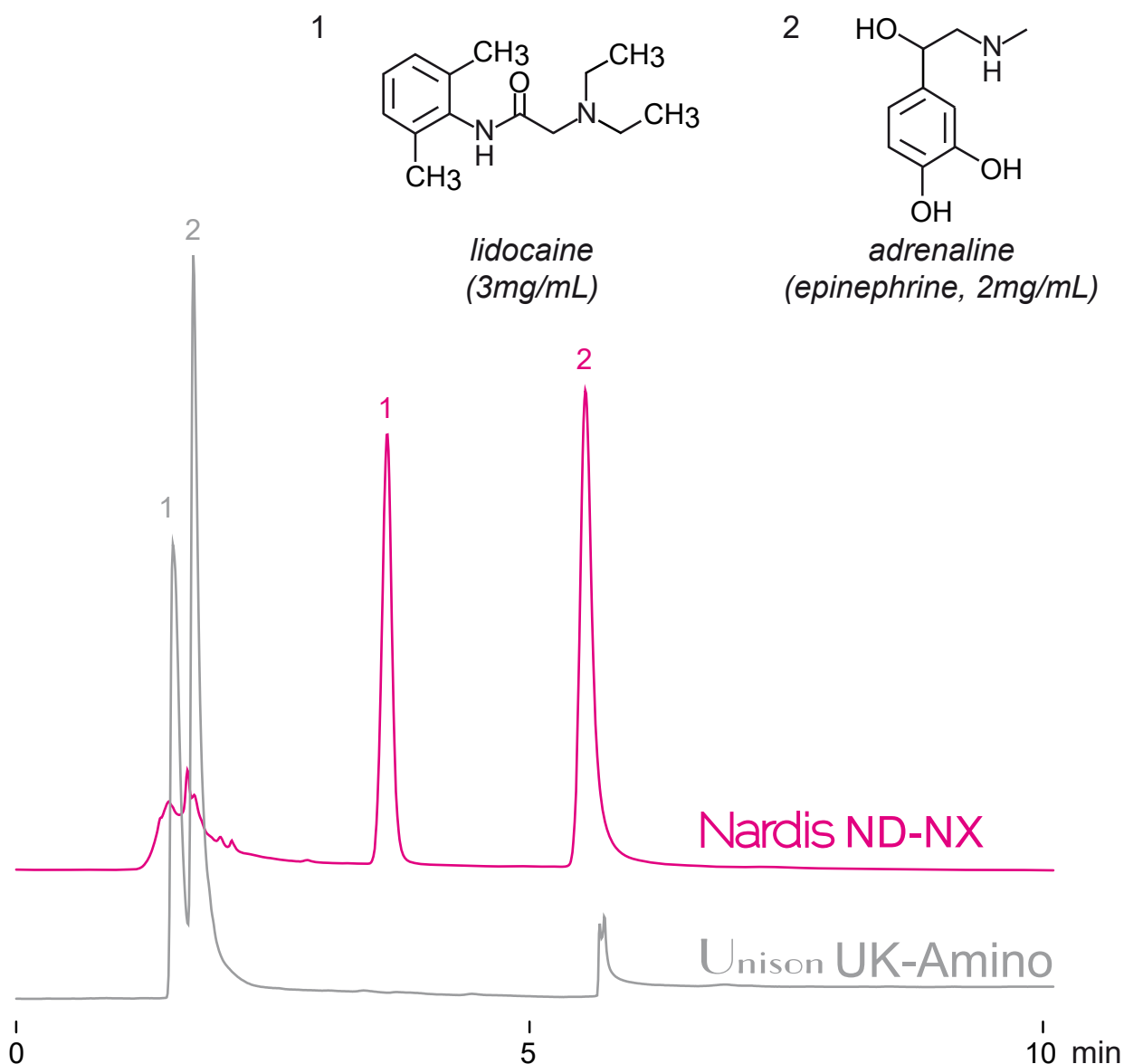
Unison UK-Amino

150 x 4.6 mm

HPLC COLUMN APPLICATION

Lidocaine, adrenaline (Local anesthetics)

リドカイン, アドレナリン (局所麻酔薬)



150 x 4.6 mm

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

B: water / formic acid = 100 / 0.5

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

1.0 mL/min (11-10MPa), 37°C, 260nm

10 μ L (2-3mg/mL, water/ACN/HCOOH=50/50/1)

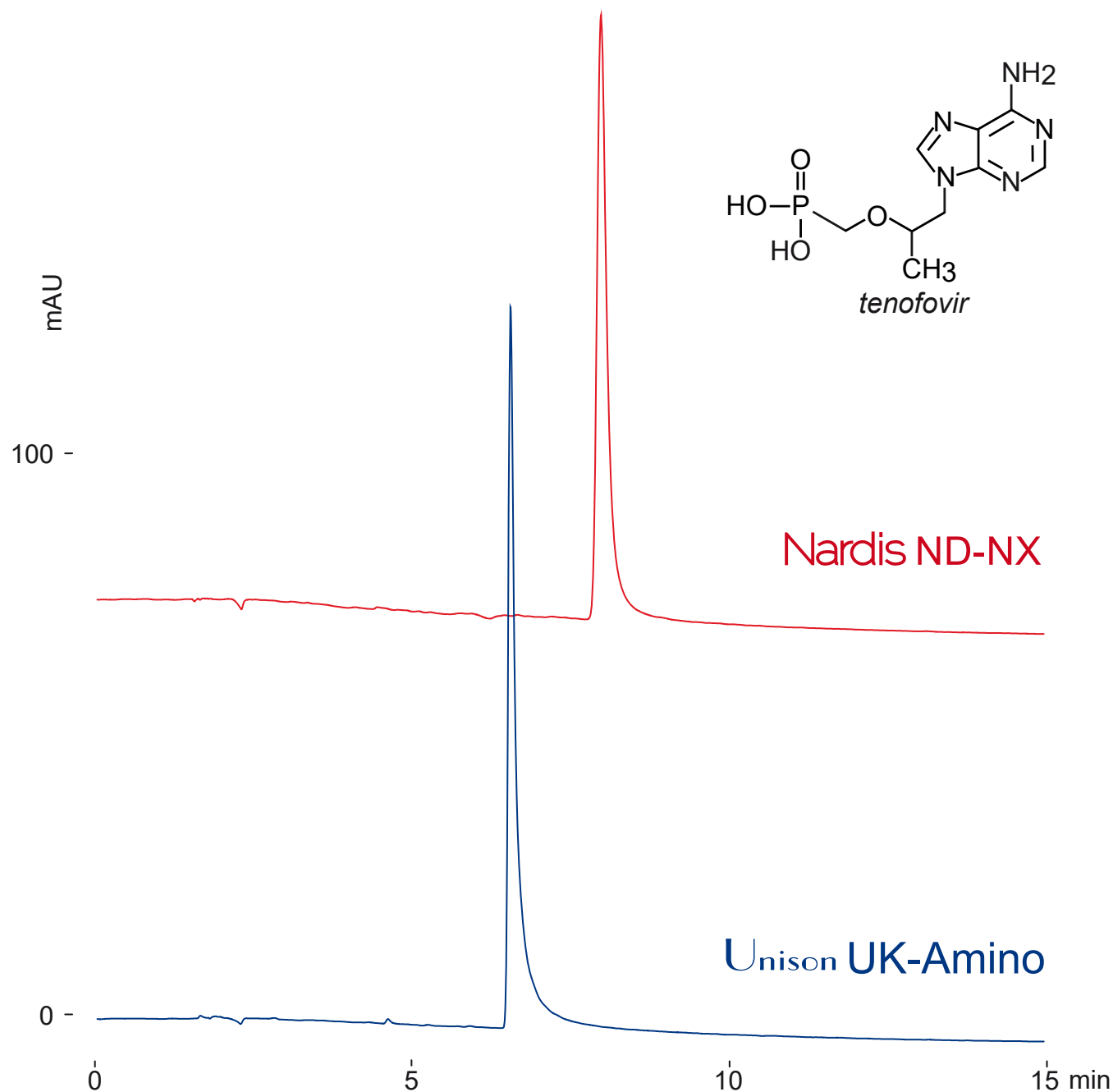
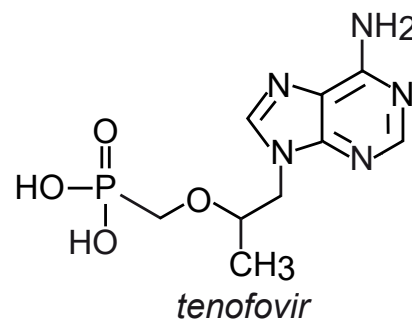
Nardis ND-NX
Unison UK-Amino

150 x 4.6 mm

HPLC COLUMN APPLICATION

Tenofovir (Antiviral)

テノホビル (抗ウイルス薬)



150 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.5

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

30-100%B (0-15min)

1mL/min (6MPa), 37°C, 260nm

10μL (0.15mg/mL, 100mM ammonium formate)

Nardis ND-NX

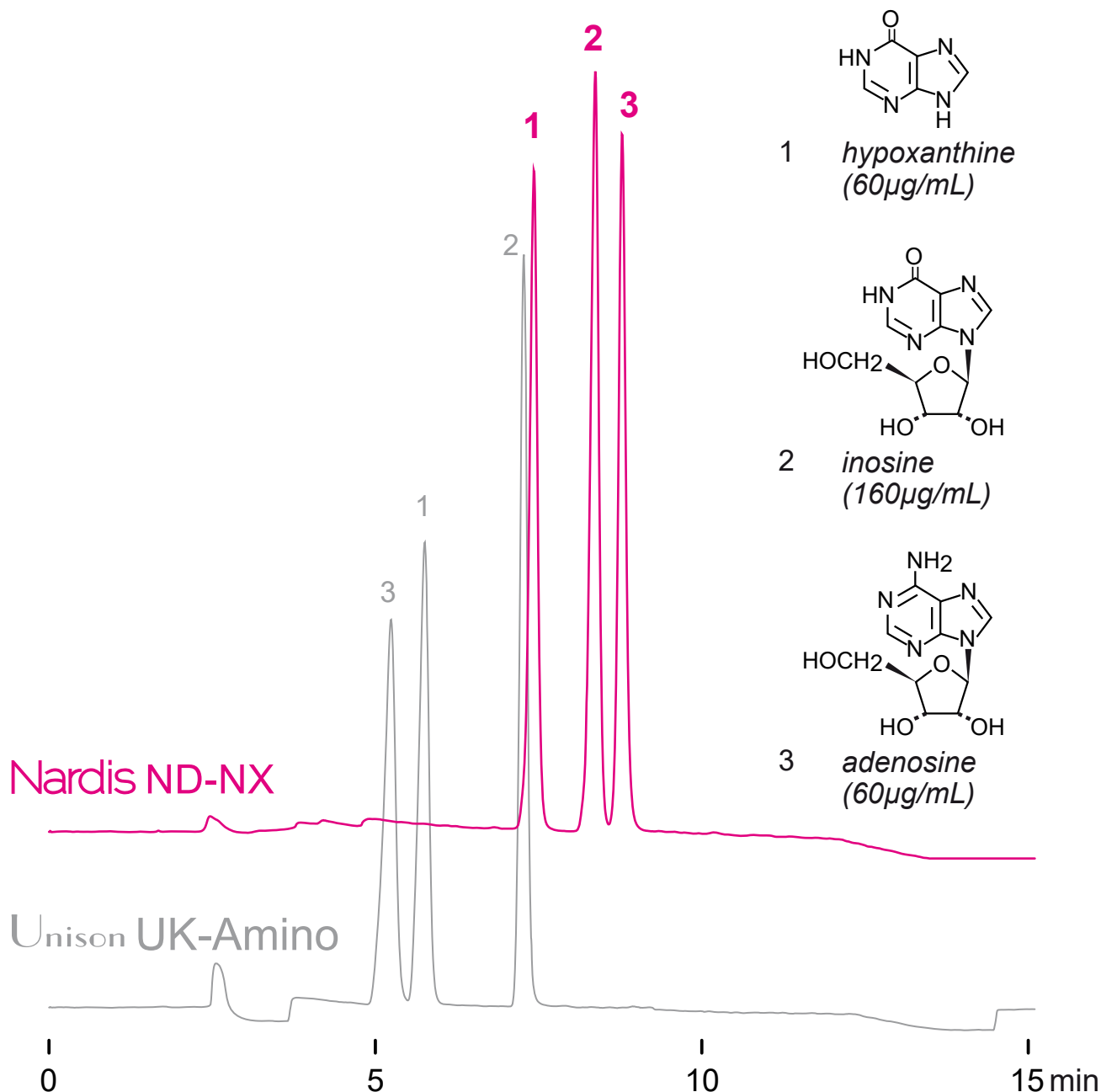
Unison UK-Amino

150 x 4.6 mm

HPLC COLUMN APPLICATION

Adenosine metabolites

アデノシン代謝化合物



150 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.1

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

10-60%B (0-10 min), 1.0mL/min (5-6MPa), 37°C, 260nm

10 μ L (60-160 μ g/mL)

Nardis ND-NX

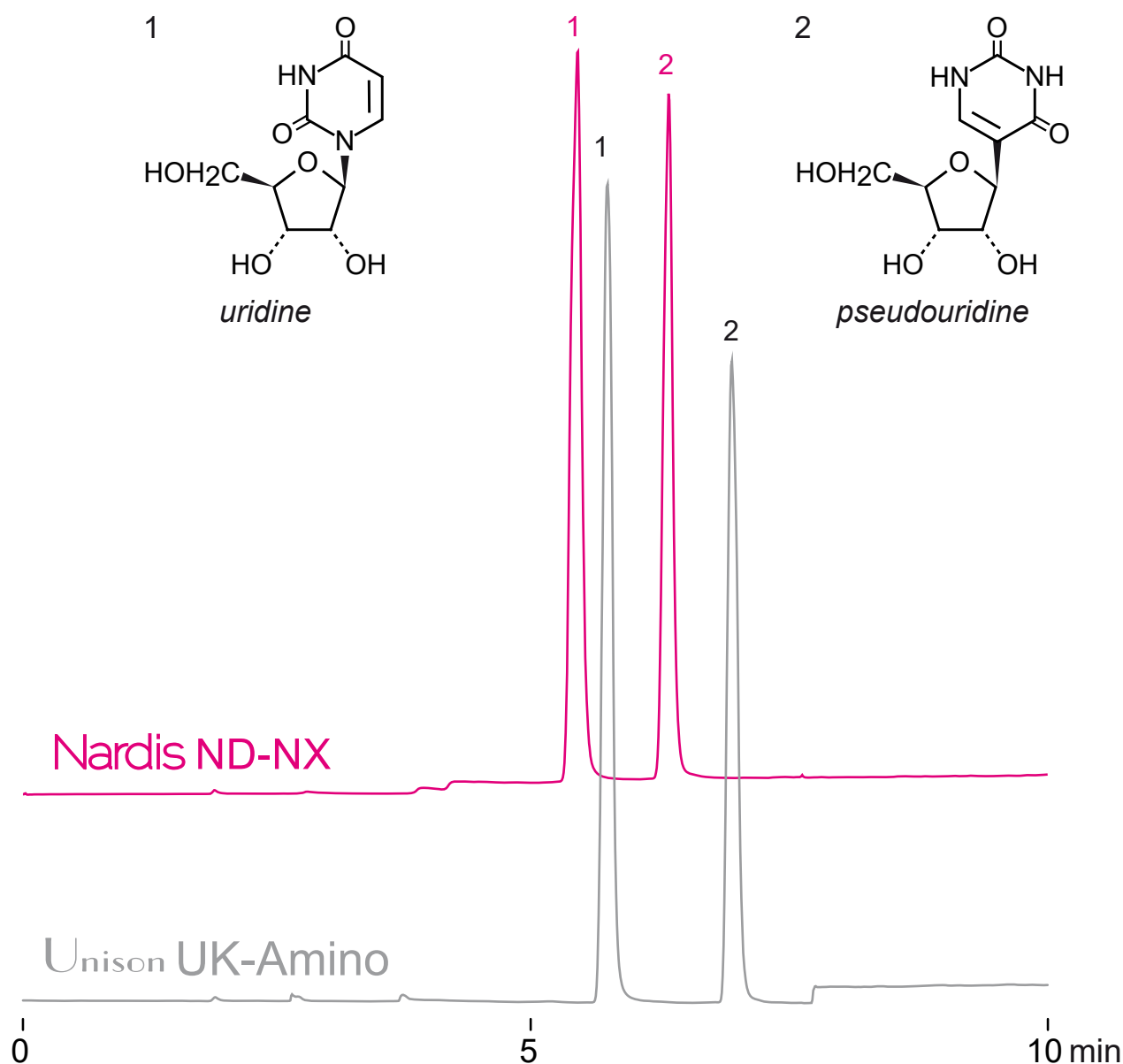
Unison UK-Amino

150 x 4.6 mm

Application

Uridine isomer (psi-uridine)

ウリジン異性体の分析



150 x 4.6 mm

A: acetonitrile

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

0-100%B (0-10 min)

1.0 mL/min (4 MPa), 37°C, 260nm

10 µL (0.08mg/mL in water/AcOH=100/2)

Nardis ND-NX

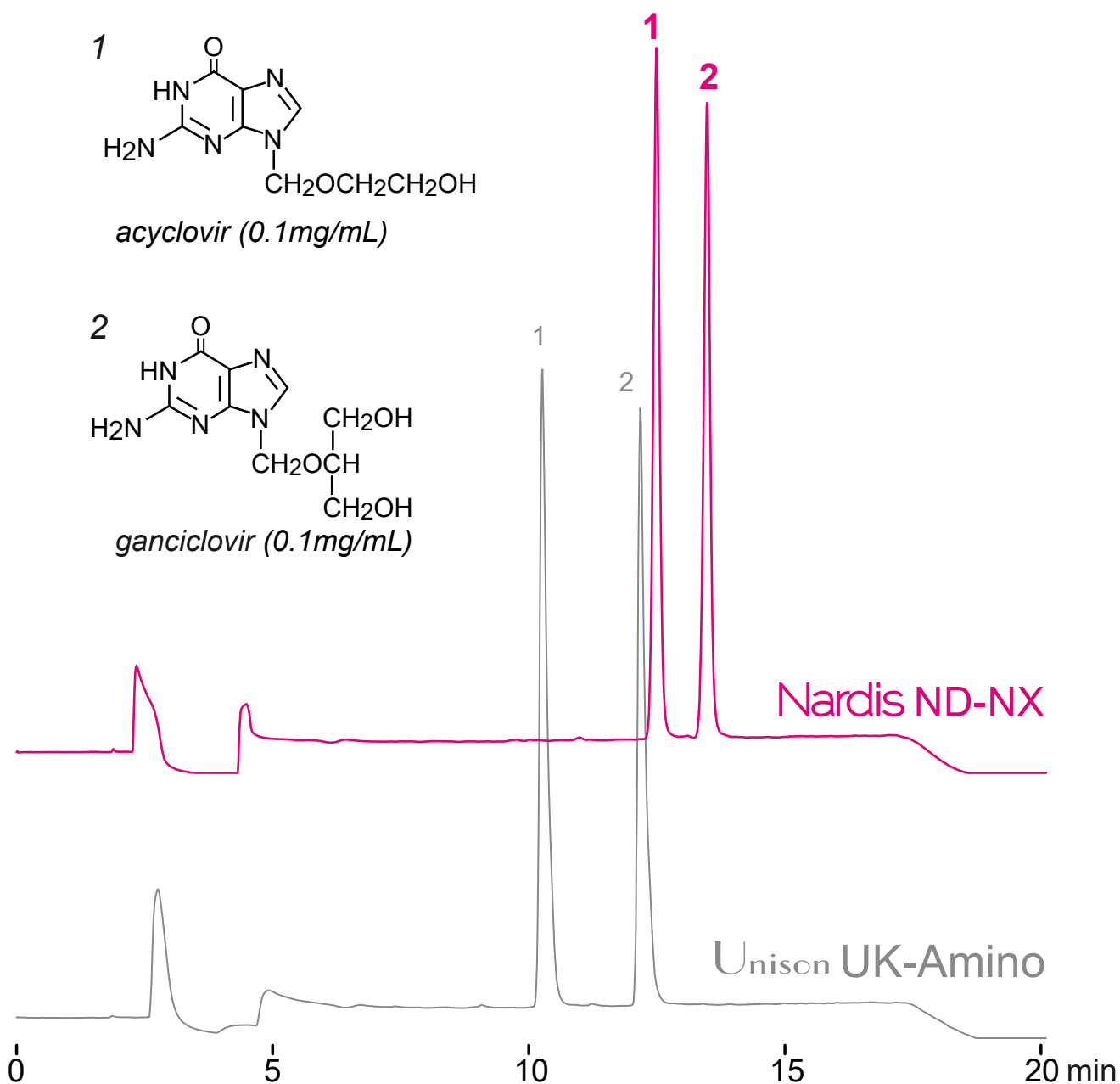
Unison UK-Amino

150 x 4.6 mm

HPLC COLUMN APPLICATION

Acyclovir, Ganciclovir (Antiviral)

アシクロビル, ガンシクロビル (抗ウイルス薬)



150 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.1

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

0-50%B (0-15min)

1.0mL/min (4-6 MPa) , 37°C, 260nm

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

Nardis ND-NX

Unison UK-Amino

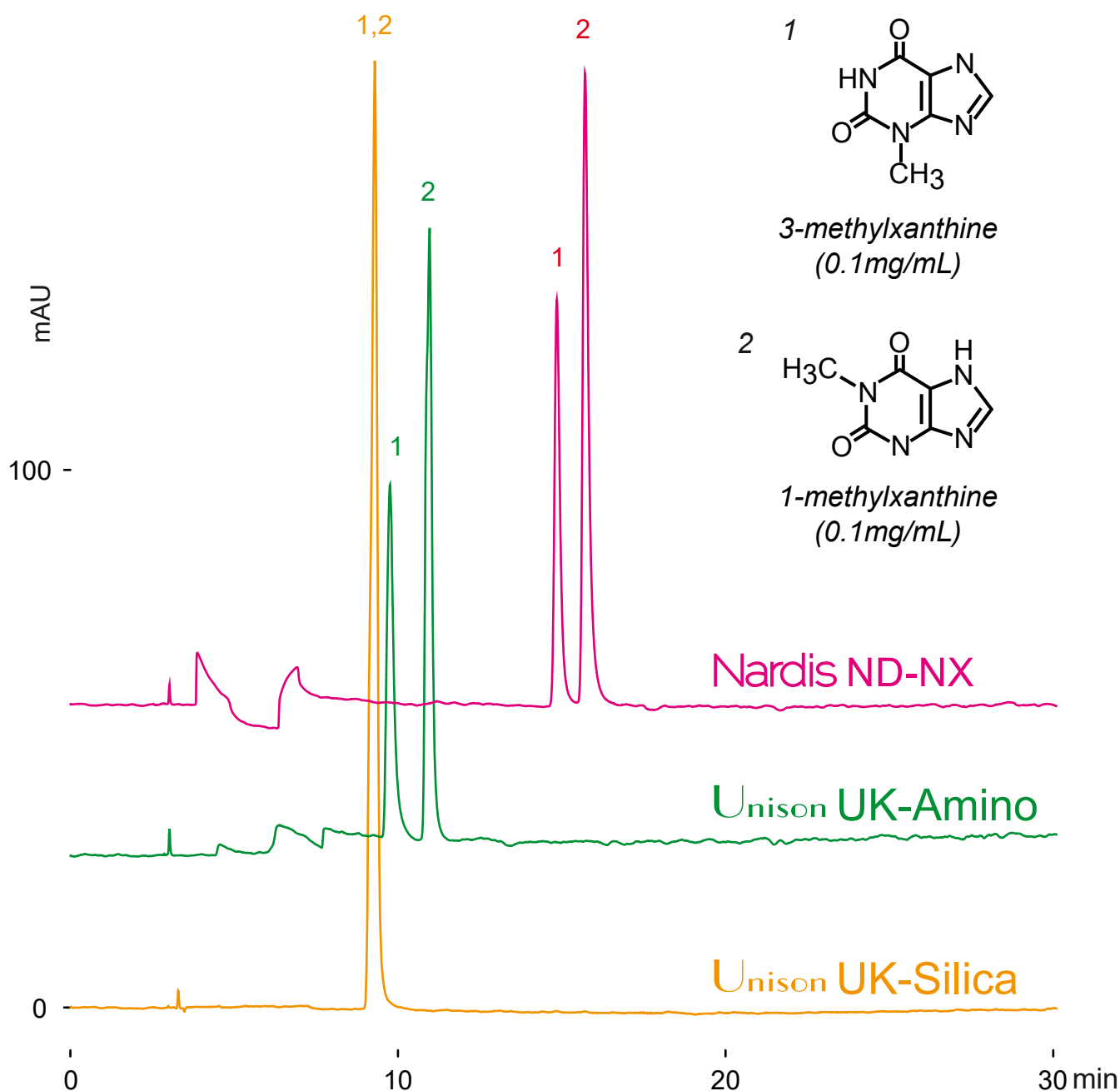
Unison UK-Silica

250 x 4.6 mm

HPLC COLUMN APPLICATION

Methylxanthine isomers

メチルキサンチン異性体



250 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.1

B: acetonitrile / water / formic acid = 50 / 50 / 0.1

0-30%B (0-30min)

1.0mL/min (5-7MPa), 50°C, 260nm

10μL (0.1mg/mL, 0.1M ammonia solution/acetonitrile=30/70)

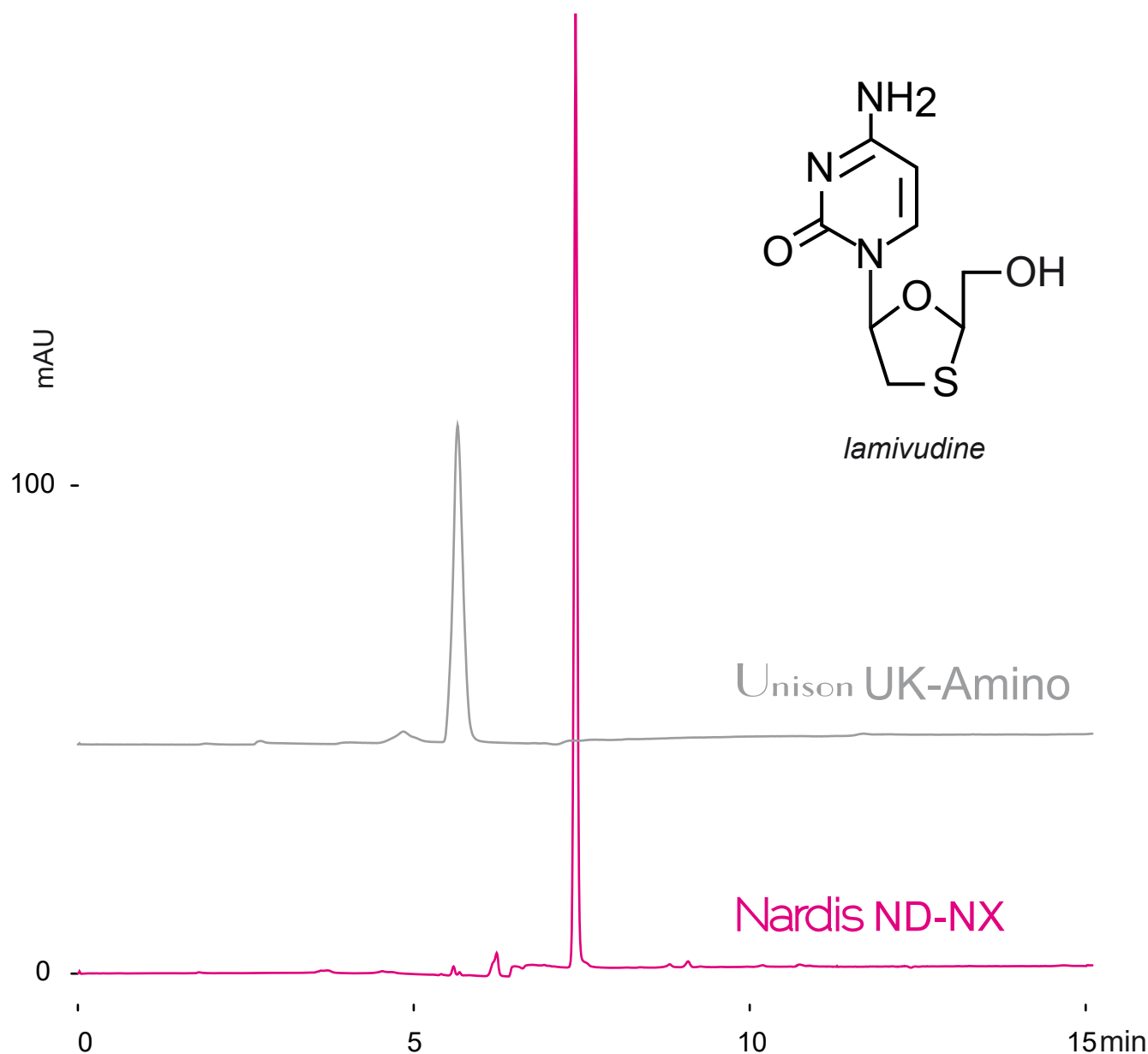
Unison UK-Amino
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Lamivudine (Antiviral)

ラミブジン (抗ウイルス薬)



150 x 4.6 mm

A: acetonitrile

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

0 -100%B (0 -15 min)

1.0 mL/min (5-6 MPa), 37°C, 260nm

10 µL (0.1mg/mL, water)

Unison UK-Amino

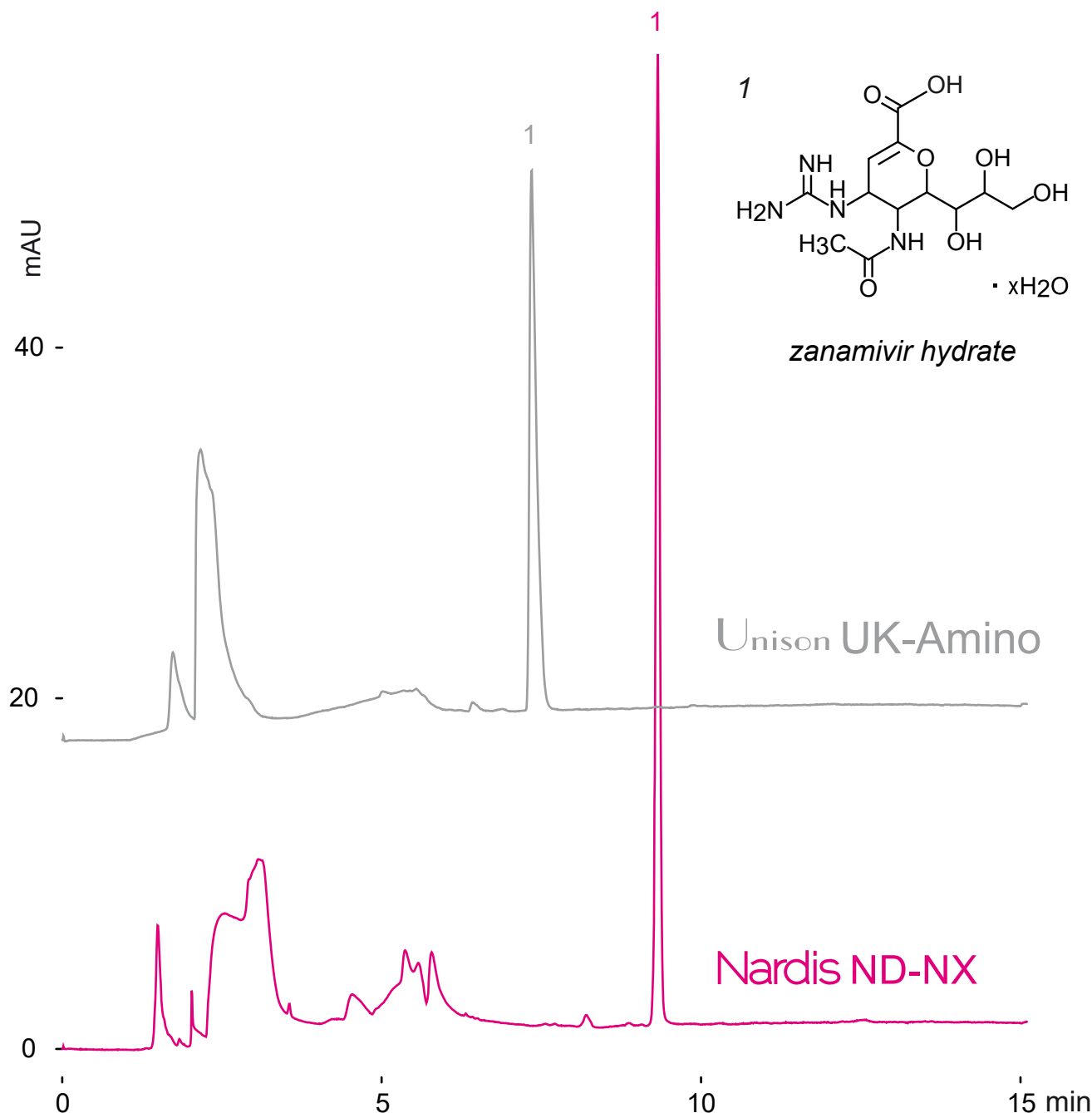
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Zanamivir (Anti-flu medicine)

ザナミビル（インフルエンザ治療薬）



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium formate

10 -100%B (0 -15 min), 1.0 mL/min (5-6 MPa), 37°C, 260nm

10 μ L (0.9mg/mL, dimethyl sulfoxide)

Nardis ND-NX

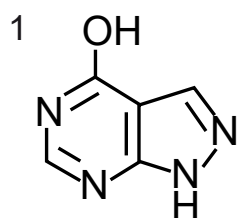
Unison UK-Amino

150 x 4.6 mm

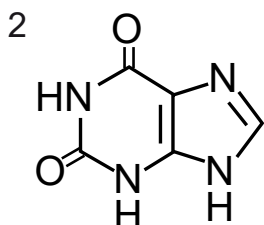
HPLC COLUMN APPLICATION

Xanthine Oxidase Related Compounds

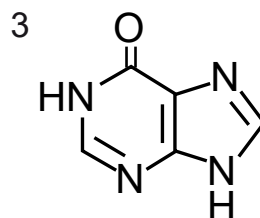
キサンチンオキシダーゼ関連化合物



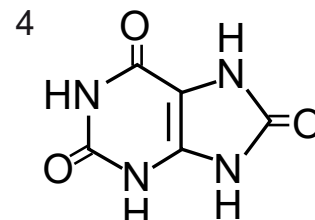
allopurinol
(0.1mg/mL)



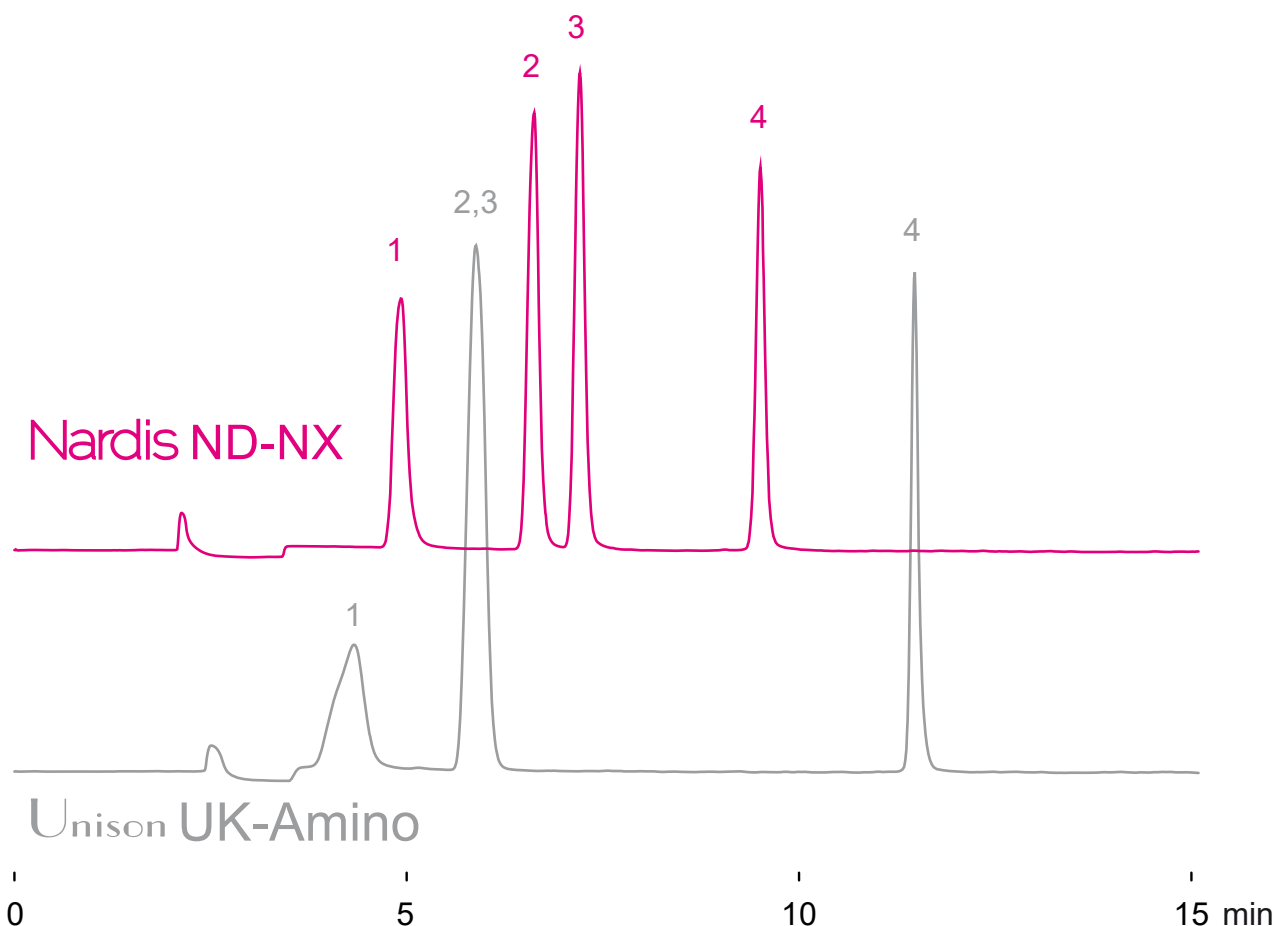
xanthine
(0.1mg/mL)



hypoxanthine
(0.1mg/mL)



uric acid
(0.2mg/mL)



150 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.1

B: acetonitrile / water / formic acid = 50 / 50 / 0.1

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

1.0 mL/min, 37°C, 260nm

10 μ L (0.1-0.2mg/mL, 25mM NaOH)

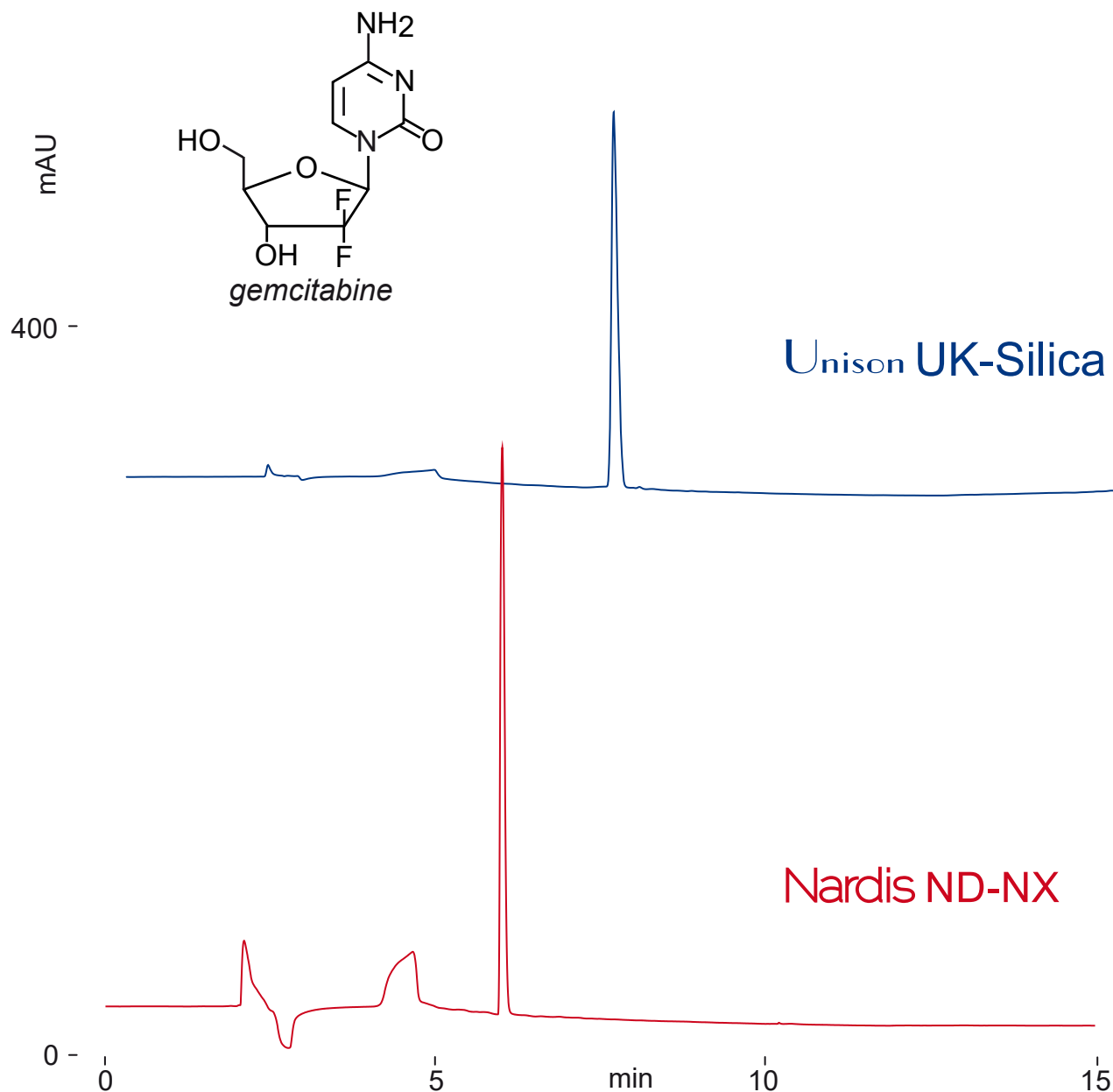
Unison UK-Silica
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Gemcitabine (Antineoplastic)

ゲムシタビン (抗悪性腫瘍薬)



150 x 4.6 mm

A : acetonitrile / formic acid = 100 / 0.5

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

0%B (0-1min), 0-100%B (1-10min), 100%B (10-15min)

1mL/min (4-6MPa), 37°C, 260nm

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

Nardis ND-NX

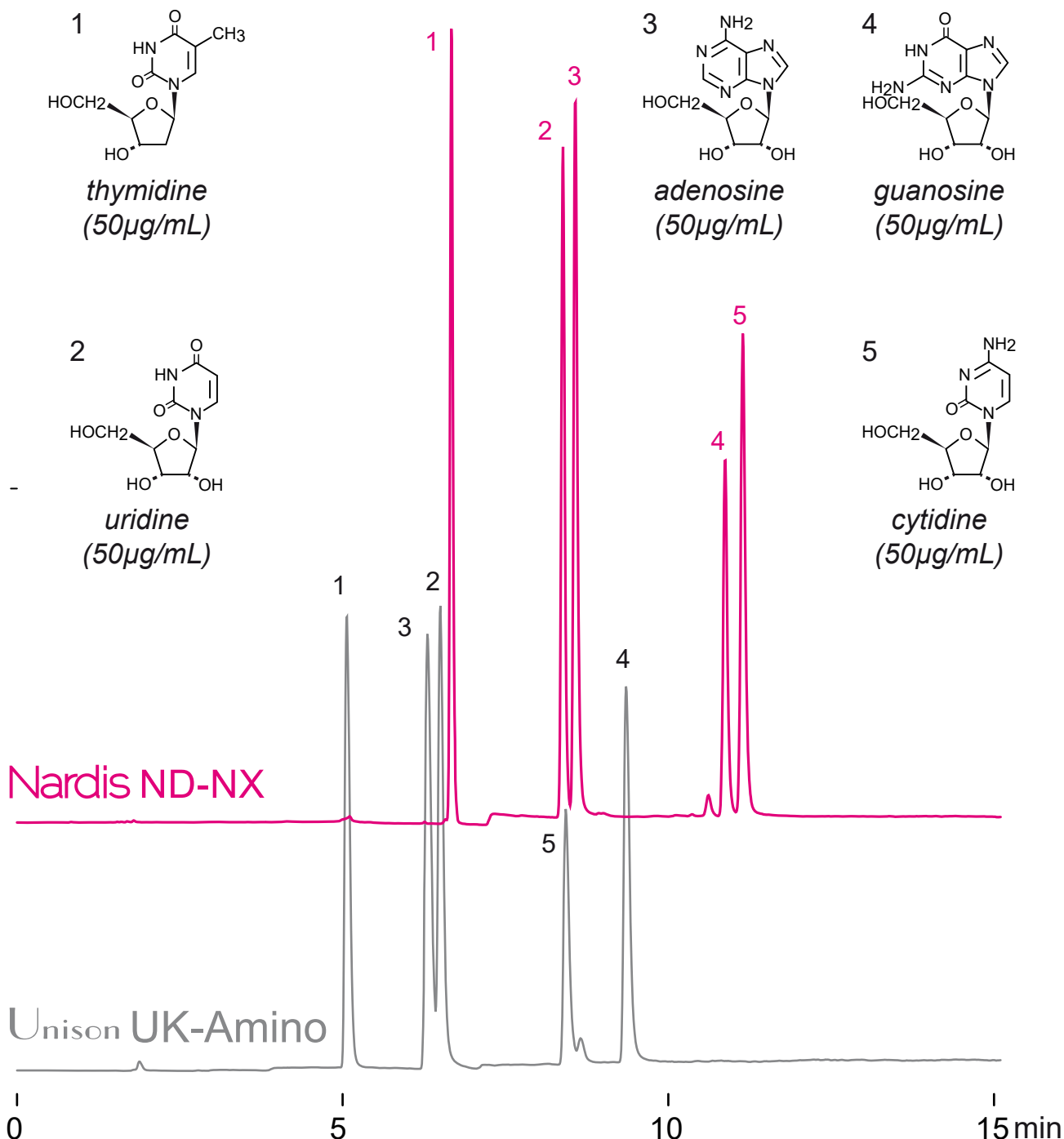
Unison UK-Amino

150 x 4.6 mm

HPLC COLUMN APPLICATION

Nucleosides

ヌクレオシド



150 x 4.6 mm

A: acetonitrile

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

0-100%B (0-15min)

1.0mL/min, 37°C, 260nm, 10μL (50μg/mL, diluted with ACN/AcOH=100/2)

Nardis ND-NX

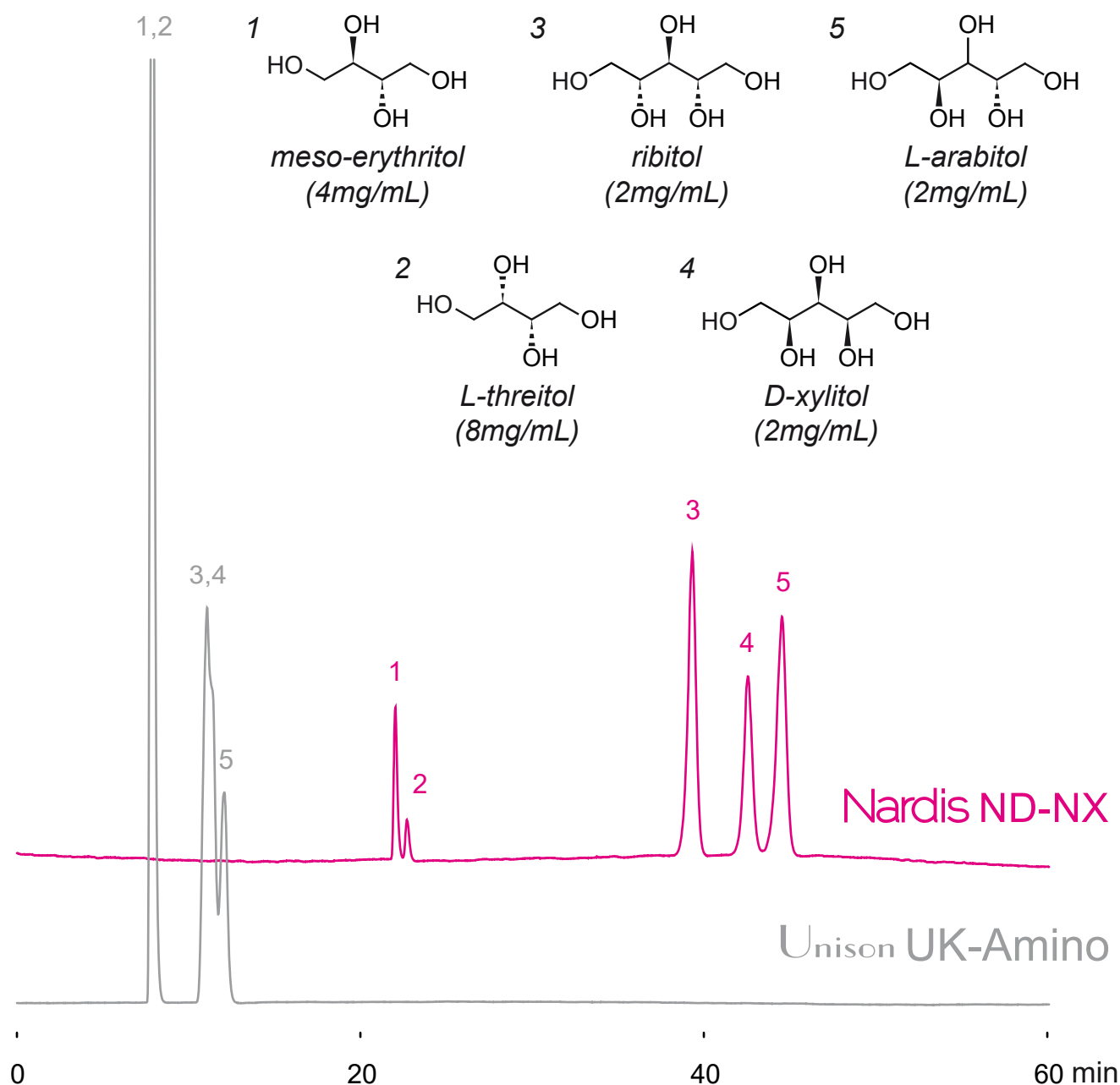
Unison UK-Amino

250 x 4.6 mm

HPLC COLUMN APPLICATION

Sugar alcohols

糖アルコール類の分析



250 x 4.6 mm

A: acetonitrile

B: 10mM ammonium acetate

5-10%B (0-60 min), 1.0 mL/min, 60°C

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

10 μ L (2-8mg/mL, water)

Unison UK-Amino

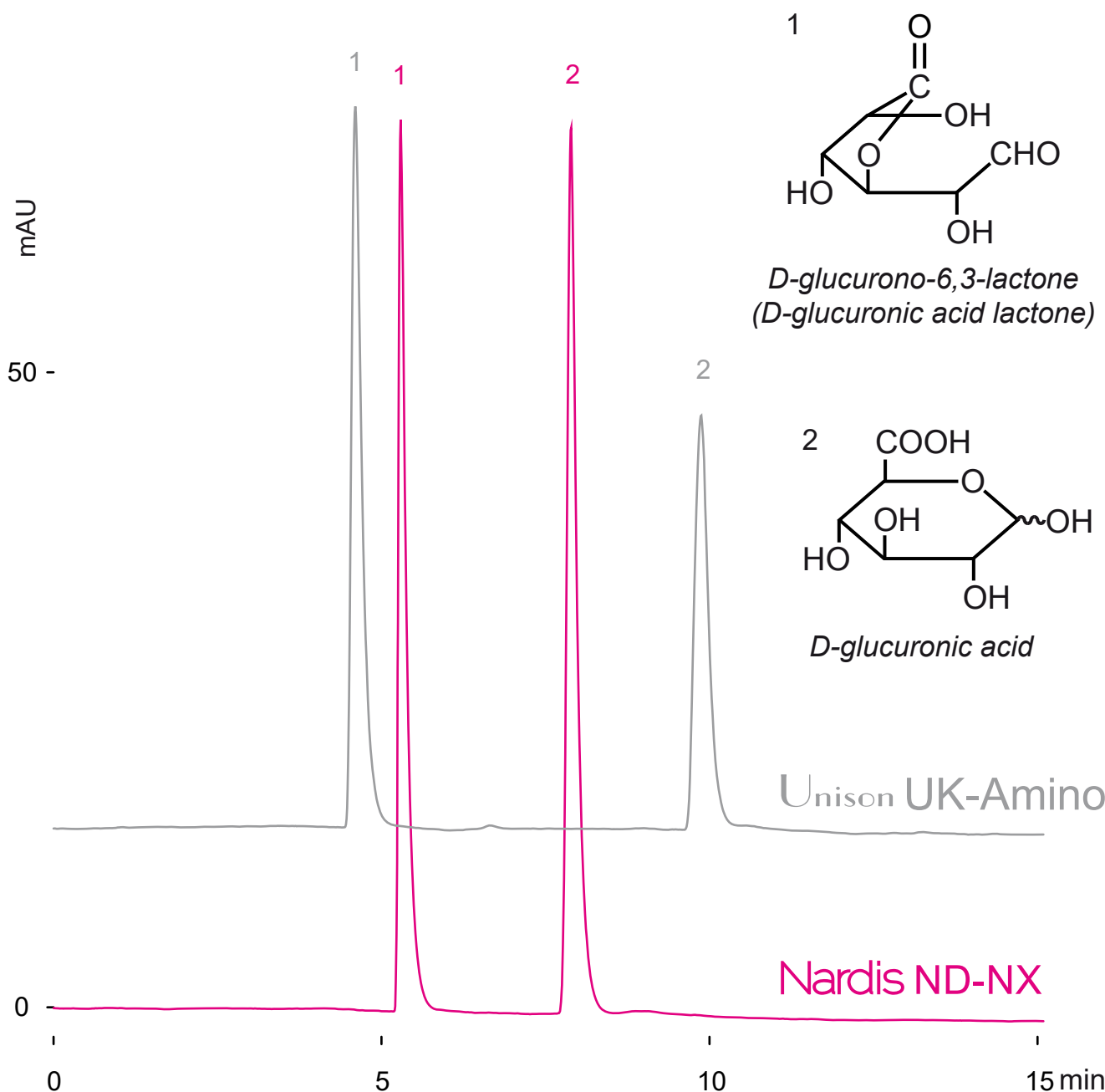
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Glucuronolactone, glucuronic acid

グルクロノラクトンとグルクロン酸の分析



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium acetate

0 -100%B (0 -15 min), 1.0 mL/min (5 -6 MPa), 37°C

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

10 µL (1-2mg/mL, water/AcOH=100/0.1)

Unison UK-Amino

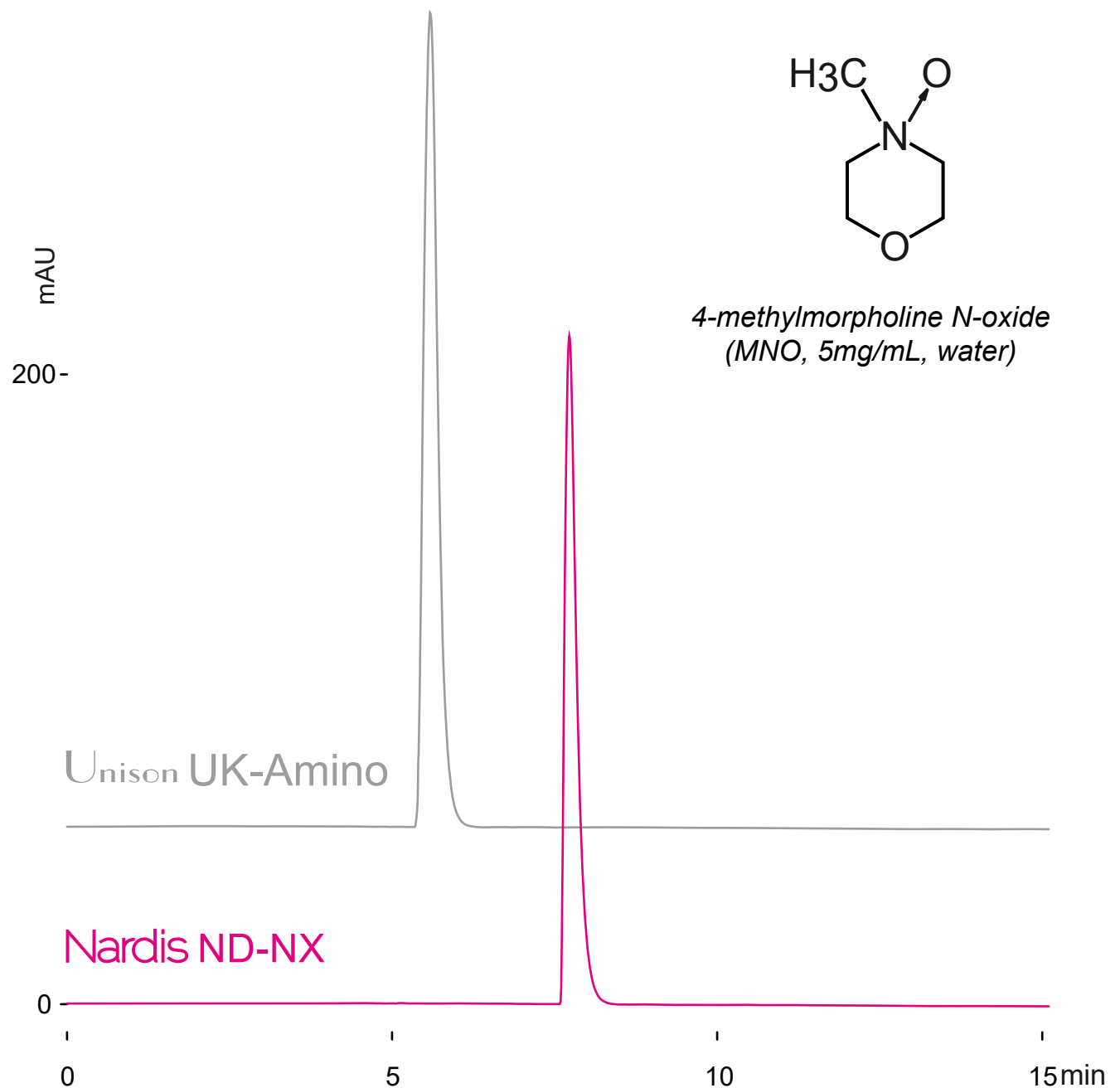
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

4-Methylmorpholine N-Oxide(MNO)

4-メチルモルホリン N-オキシド (MNO) の分析



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium acetate

0 -100%B (0 -15 min), 1.0 mL/min (6 MPa) , 37°C

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

10 µL (5.0mg/mL, water)

Nardis ND-NX

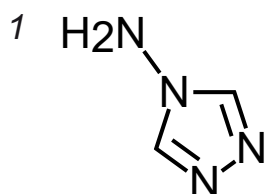
Unison UK-Amino

150 x 4.6 mm

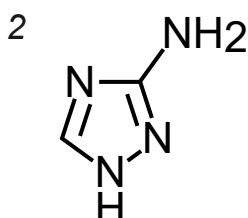
HPLC COLUMN APPLICATION

Aminotriazoles

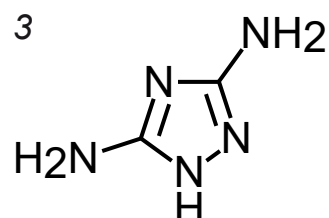
アミノトリアゾール類の分析



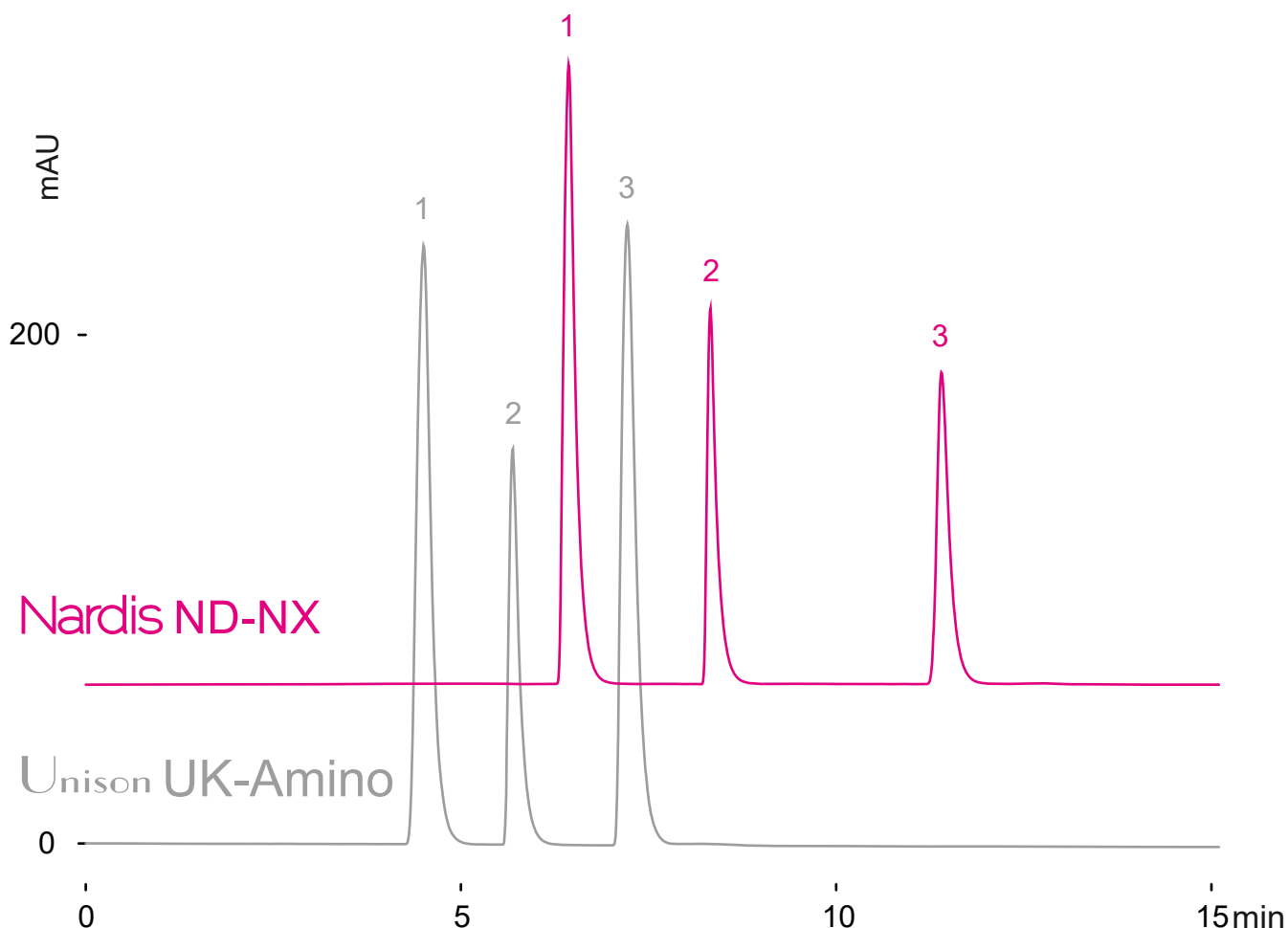
4-amino-1,2,4-triazole



amitrole
(3-amino-1,2,4-triazole)



guanazole
(3,5-diamino-1,2,4-triazole)



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium acetate

0 -50%B (0 -10 min), 1.0 mL/min (6 -7 MPa), 37°C

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

10 µL (3mg/mL, water)

Unison UK-Amino

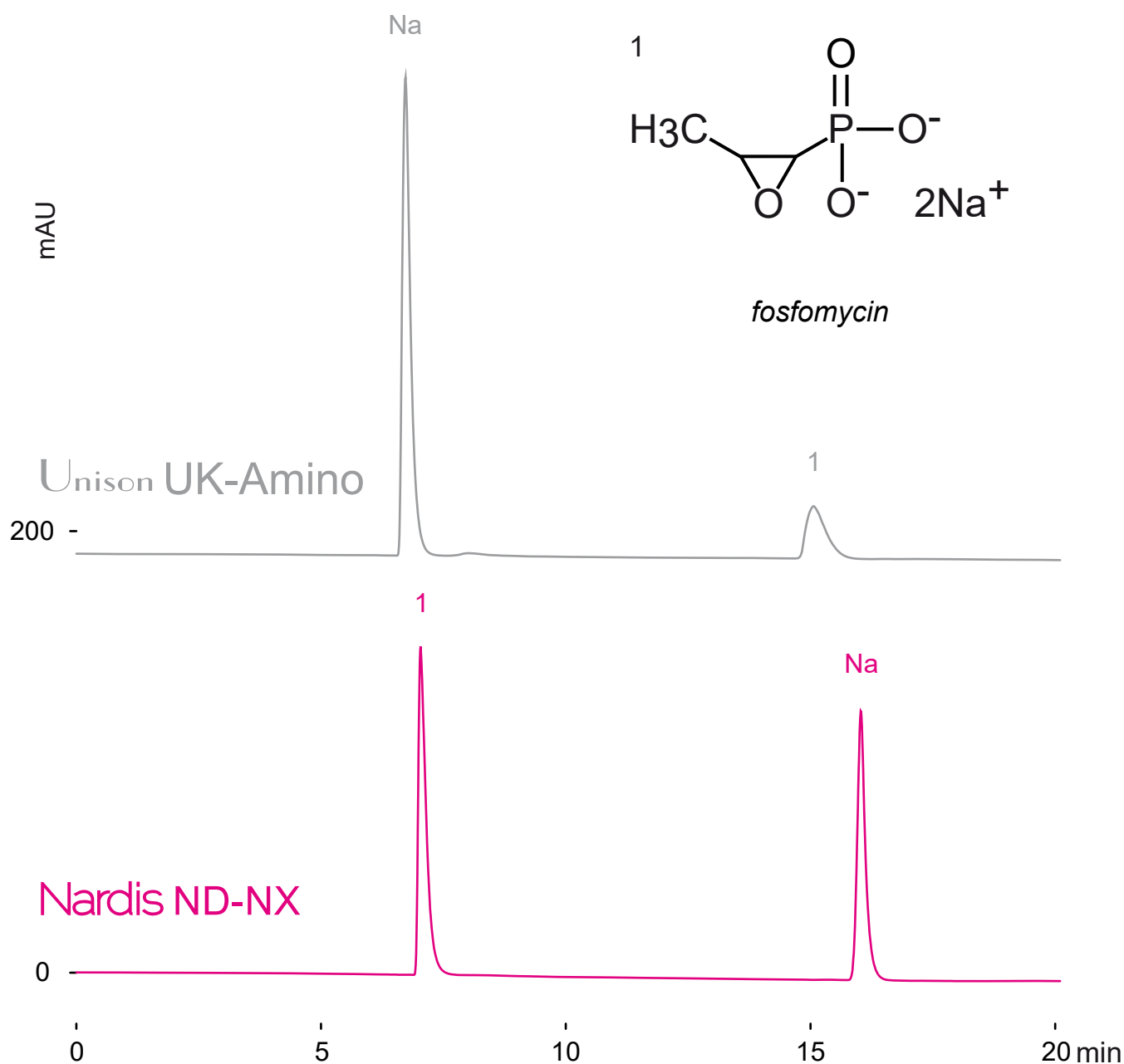
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Fosfomycin

ホスホマイシンの分析



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium acetate

0 -100%B (0 -15 min), 100%B (15 -20 min)

1.0 mL/min (6 -7 MPa), 37°C

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

10 µL (5mg/mL, water)

Unison UK-Amino

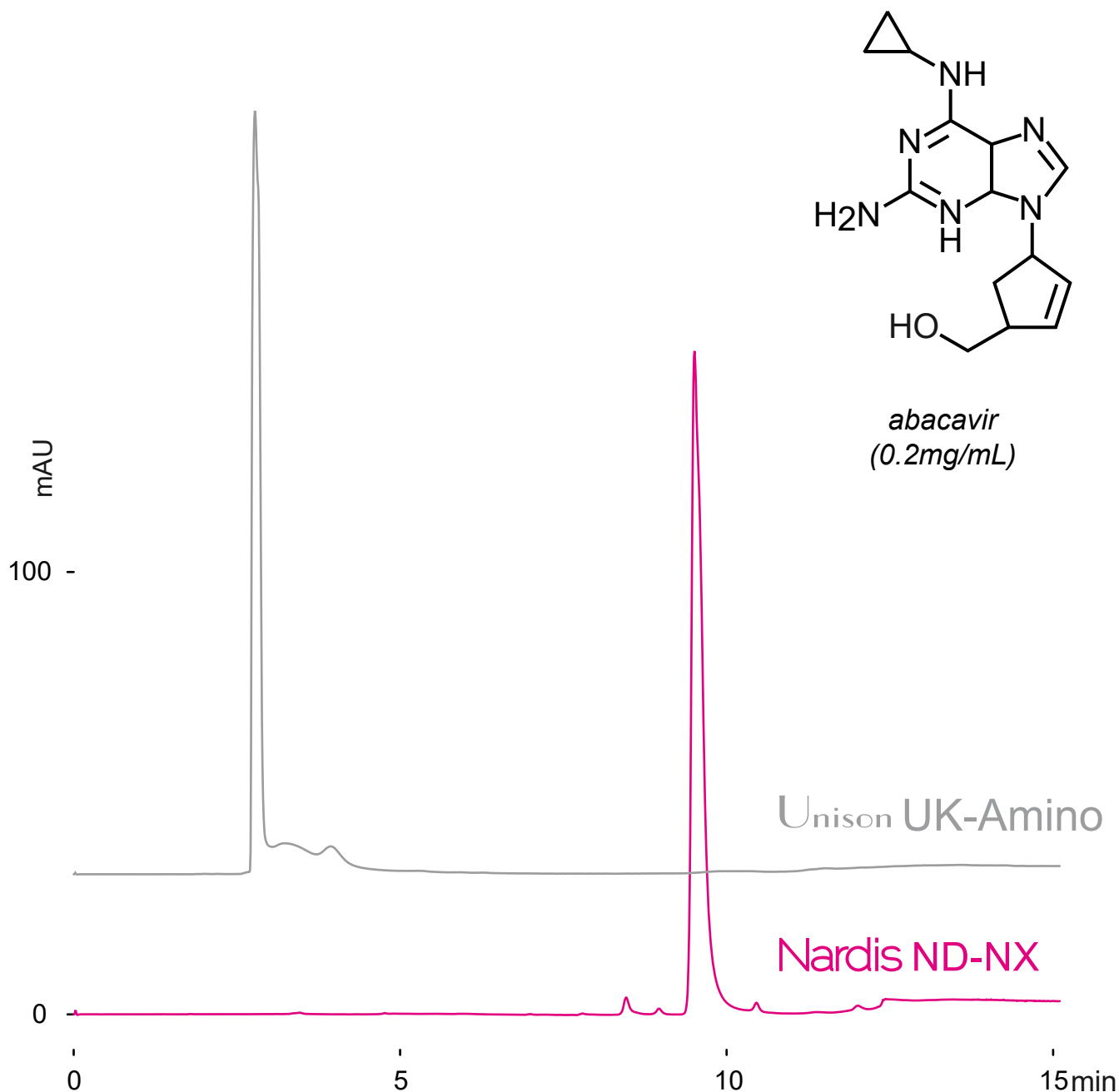
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Abacavir

アバカビルの分析



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium formate

0-30%B (0-15 min)

1.0 mL/min (6-7MPa), 37°C, 260nm

10 µL (0.2mg/mL, water/formic acid=100/1)

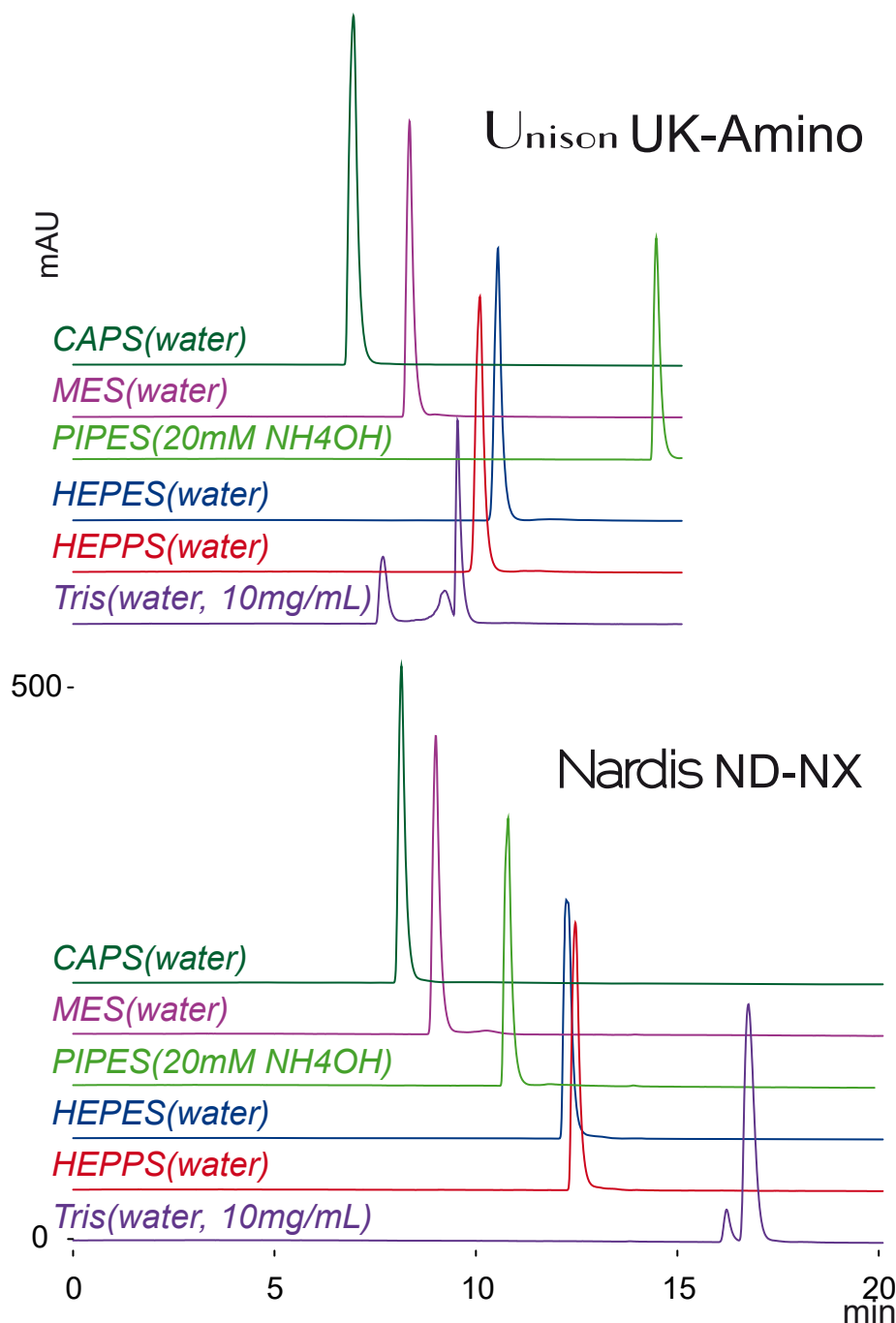
Unison UK-Amino
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Biological buffer components

生化学用緩衝液成分の分析



150 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.1

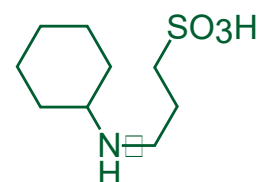
B: acetonitrile / 100mM ammonium formate = 50 / 50

0 -100%B (0 -15 min), 100%B (15 -20 min)

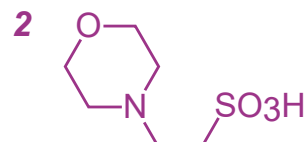
1.0 mL/min (6-8MPa), 37°C

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

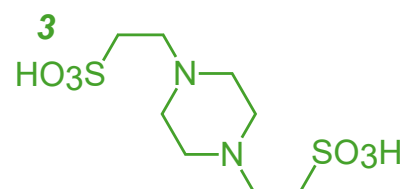
10 µL (5-10mg/mL)



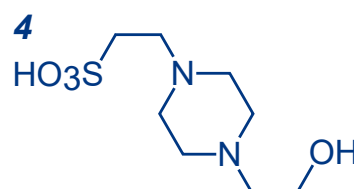
3-cyclohexylaminopropane sulfonic acid (CAPS)



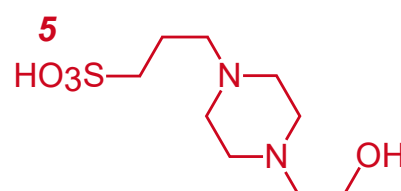
2-morpholinoethane sulfonic acid (MES)



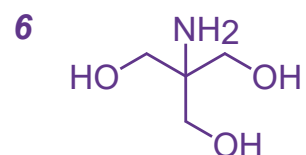
piperazine-1,4-bis(2-ethanesulfonic acid) (PIPES)



2-[4-(2-hydroxyethyl)-1-piperazinyl] ethane sulfonic acid (HEPES)



3-[4-(2-hydroxyethyl)-1-piperazinyl] propane sulfonic acid (HEPPS)



tris(hydroxymethyl) aminomethane (TRIS)

Nardis ND-NX

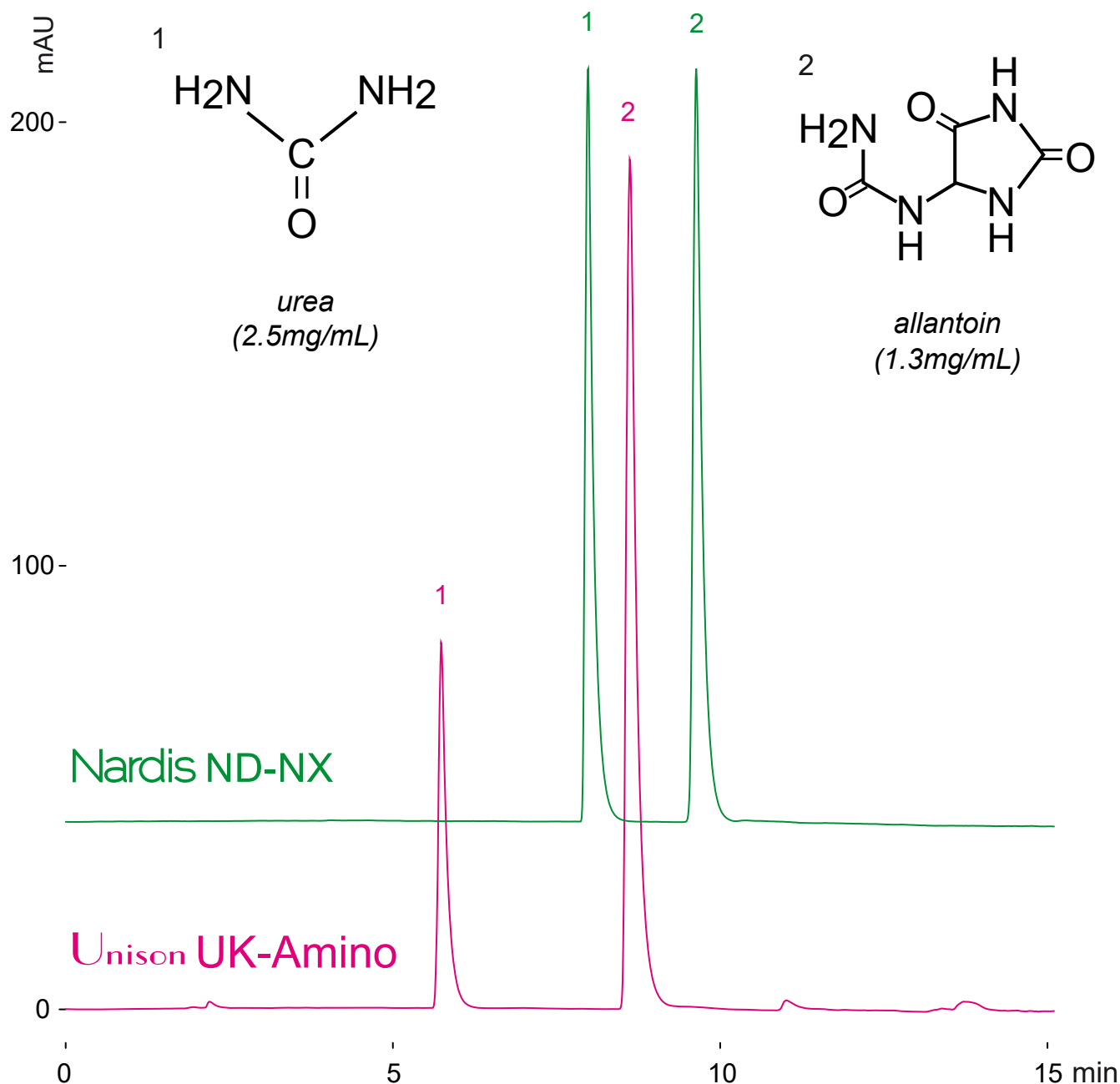
Unison UK-Amino

150 x 4.6 mm

HPLC COLUMN APPLICATION

Urea, allantoin

尿素、アラントイン



150 x 4.6 mm

A: acetonitrile

B: 100mM ammonium acetate

0-40%B (0-15min)

1.0mL/min (6MPa), 37°C

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

10μL (1.3-2.5mg/mL, water/methanol=50/50)

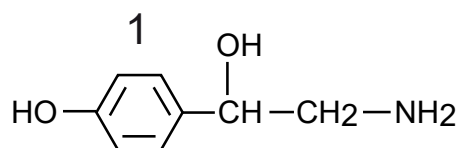
Nardis ND-RX
Nardis ND-NX

150 x 4.6 mm

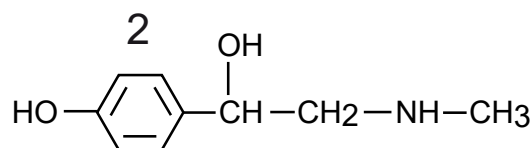
HPLC COLUMN APPLICATION

Adrenergic amines

アドレナリン作動性アミン

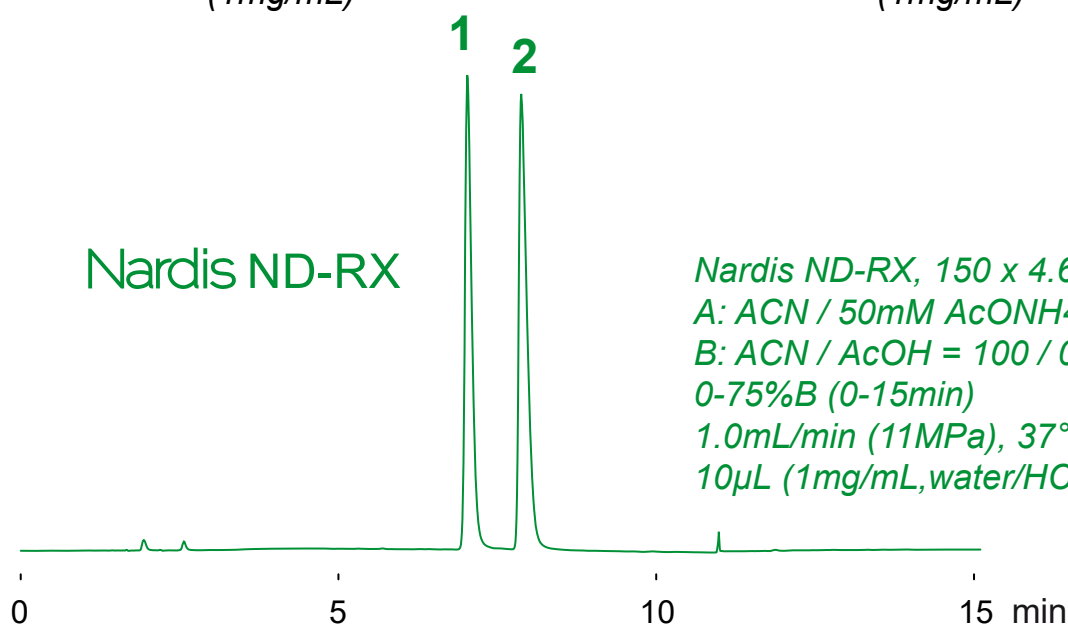


octopamine
(1mg/mL)



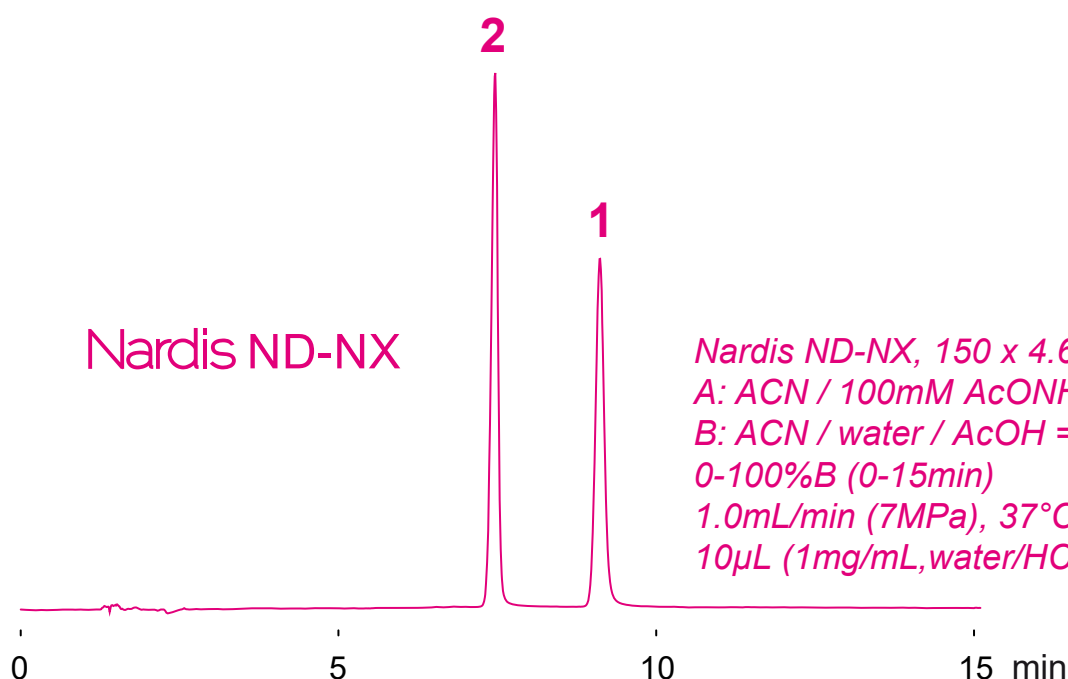
syneprhine
(1mg/mL)

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)

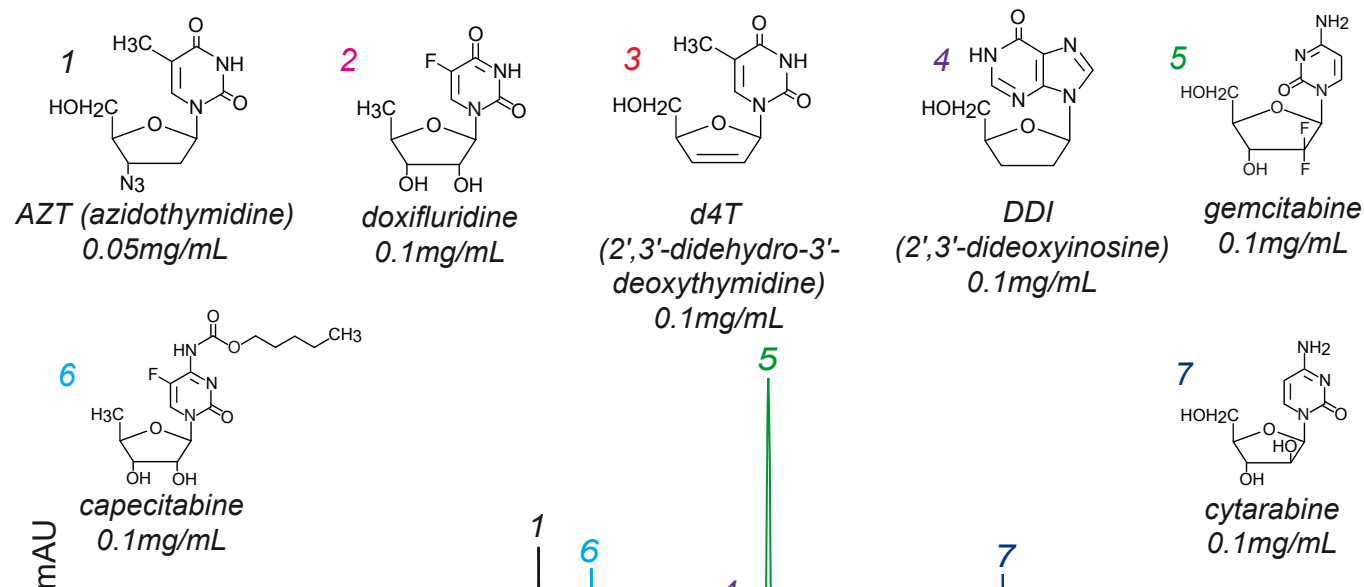
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Nucleoside antimetabolites

ヌクレオシド代謝拮抗薬



Nardis ND-NX, 150 x 4.6 mm

A : acetonitrile

B : acetonitrile / 10mM ammonium acetate = 50 / 50

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

1mL/min (6MPa), 37°C, 260nm

5μL (0.05-0.1mg/mL, 100mM ammonium acetate)

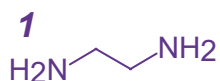
Nardis ND-NX

150 x 3 mm

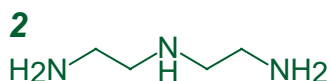
HPLC COLUMN APPLICATION

LC-MS: Synthetic polyamines

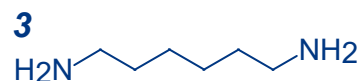
合成ポリアミンの LC-MS 分析



ethylenediamine



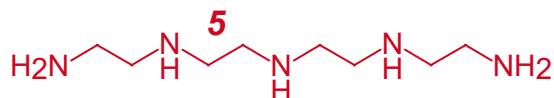
diethylenetriamine



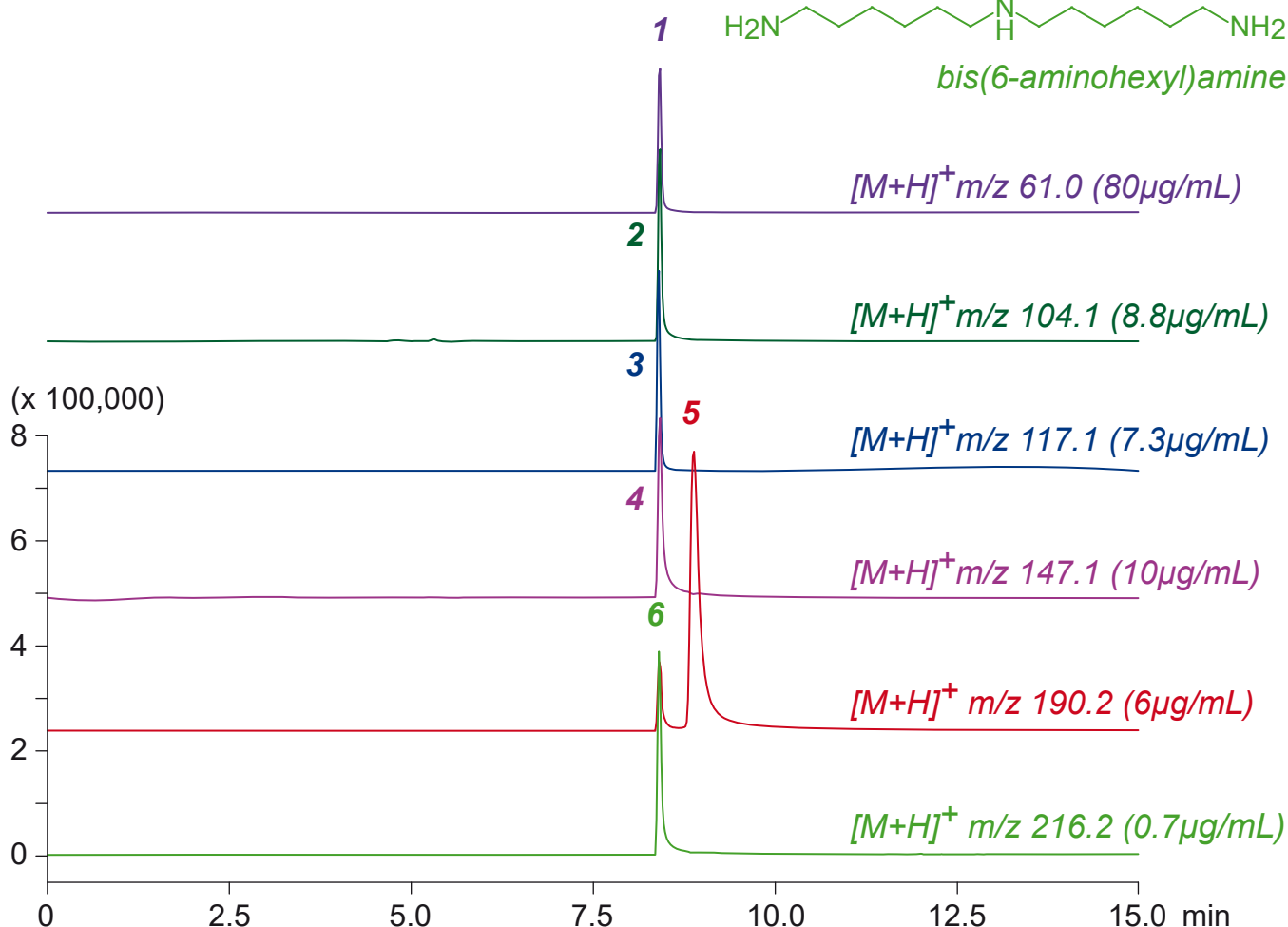
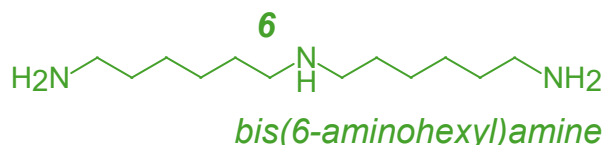
hexamethylenediamine



triethylenetetramine



tetraethylenepentamine



Nardis ND-NX, 150 x 3 mm

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

B: water / formic acid = 100 / 0.5

0-100%B (0-15min)

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

5μL (0.7-80μg/mL, 50mM ammonium formate)

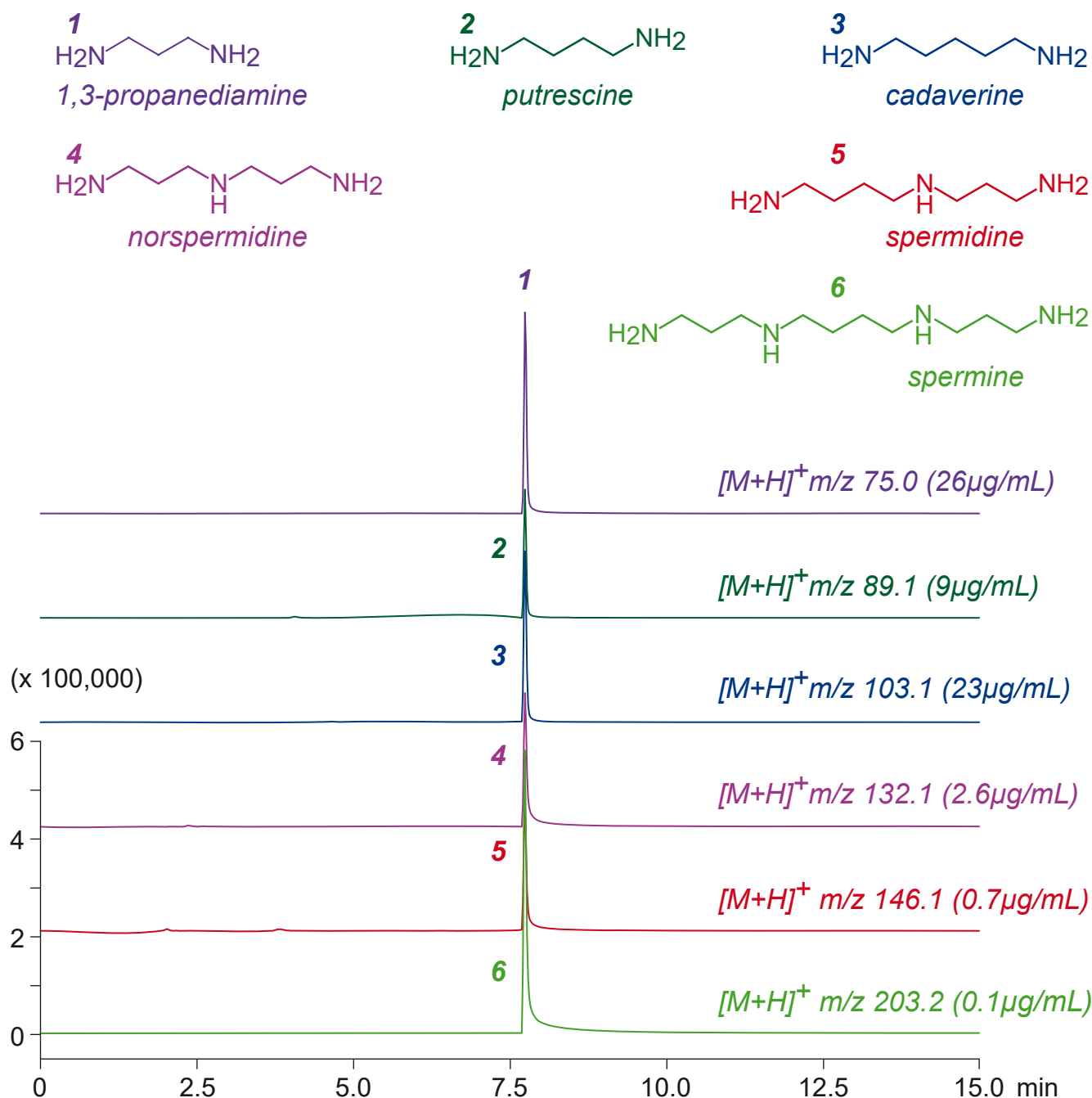
Nardis ND-NX

150 x 3 mm

HPLC COLUMN APPLICATION

LC-MS: Biogenic polyamines

生体ポリアミンの LC-MS 分析



Nardis ND-NX, 150 x 3 mm

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

B: water / formic acid = 100 / 0.5

0-100%B (0-15min)

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

5μL (0.1-26μg/mL, 50mM ammonium formate)

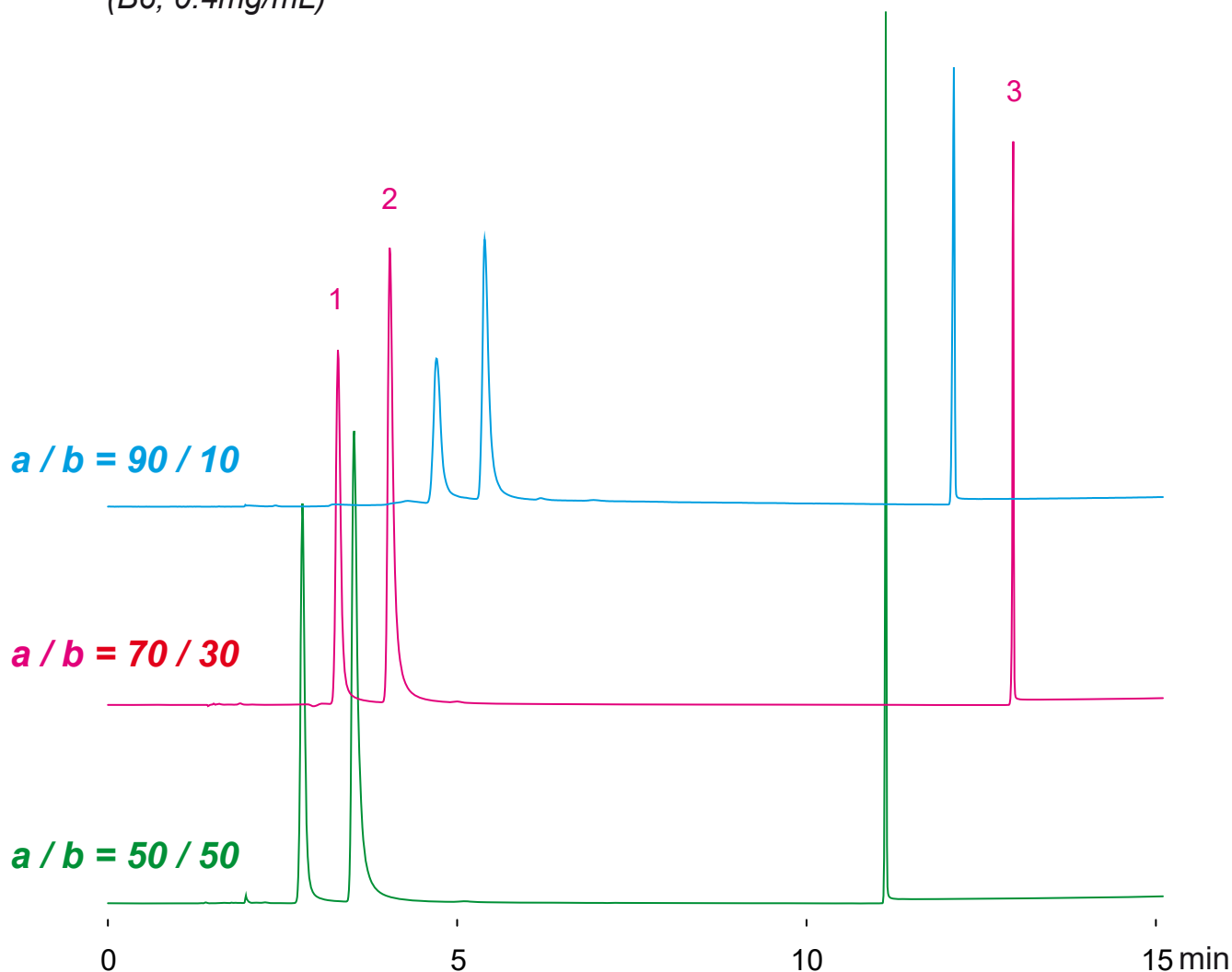
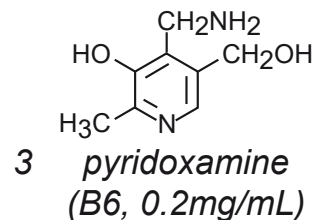
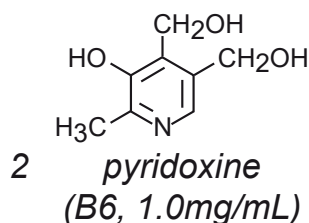
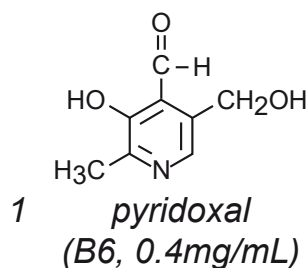
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Vitamin B6

ビタミン B 6



Nardis ND-NX, 150 x 4.6 mm

A: acetonitrile / 100mM ammonium formate = a / b

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

0-100%B (0-15min)

1.0mL/min (5-9MPa), 37°C, 260nm

10μL (1.0-0.2mg/mL, water)

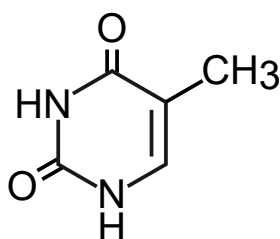
Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION

Nucleobases

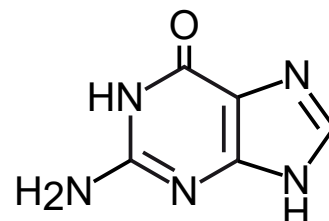
核酸塩基



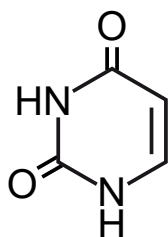
1 thymine
(40µg/mL)



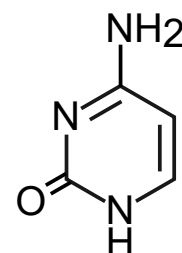
3 adenine
(40µg/mL)



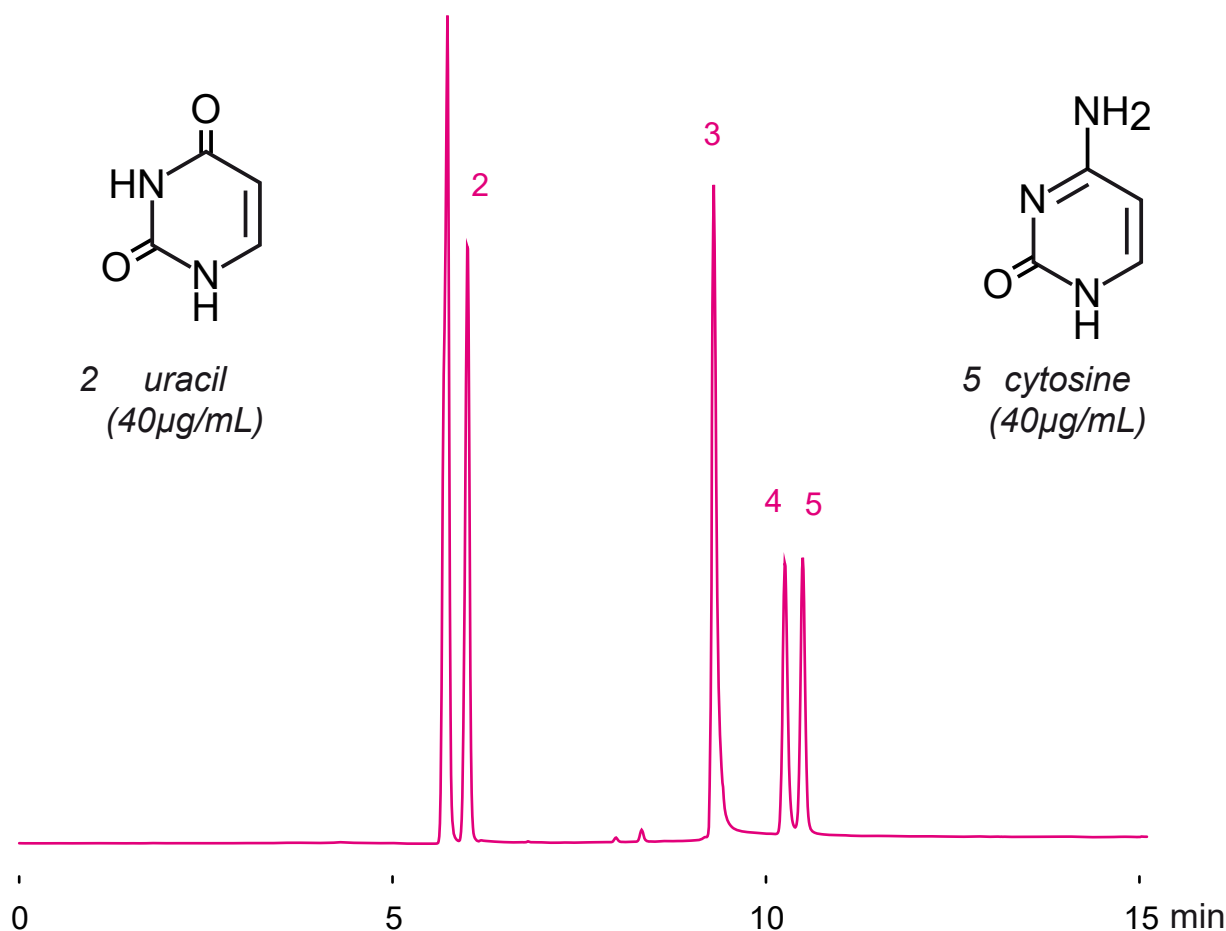
4 guanine
(40µg/mL)



2 uracil
(40µg/mL)



5 cytosine
(40µg/mL)



Nardis ND-NX, 150 x 4.6 mm

A: acetonitrile

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

0-100%B (0-15min)

1.0mL/min, 37°C, 260nm, 10µL (50µg/mL, diluted with ACN/AcOH=100/2)

Nardis ND-NX

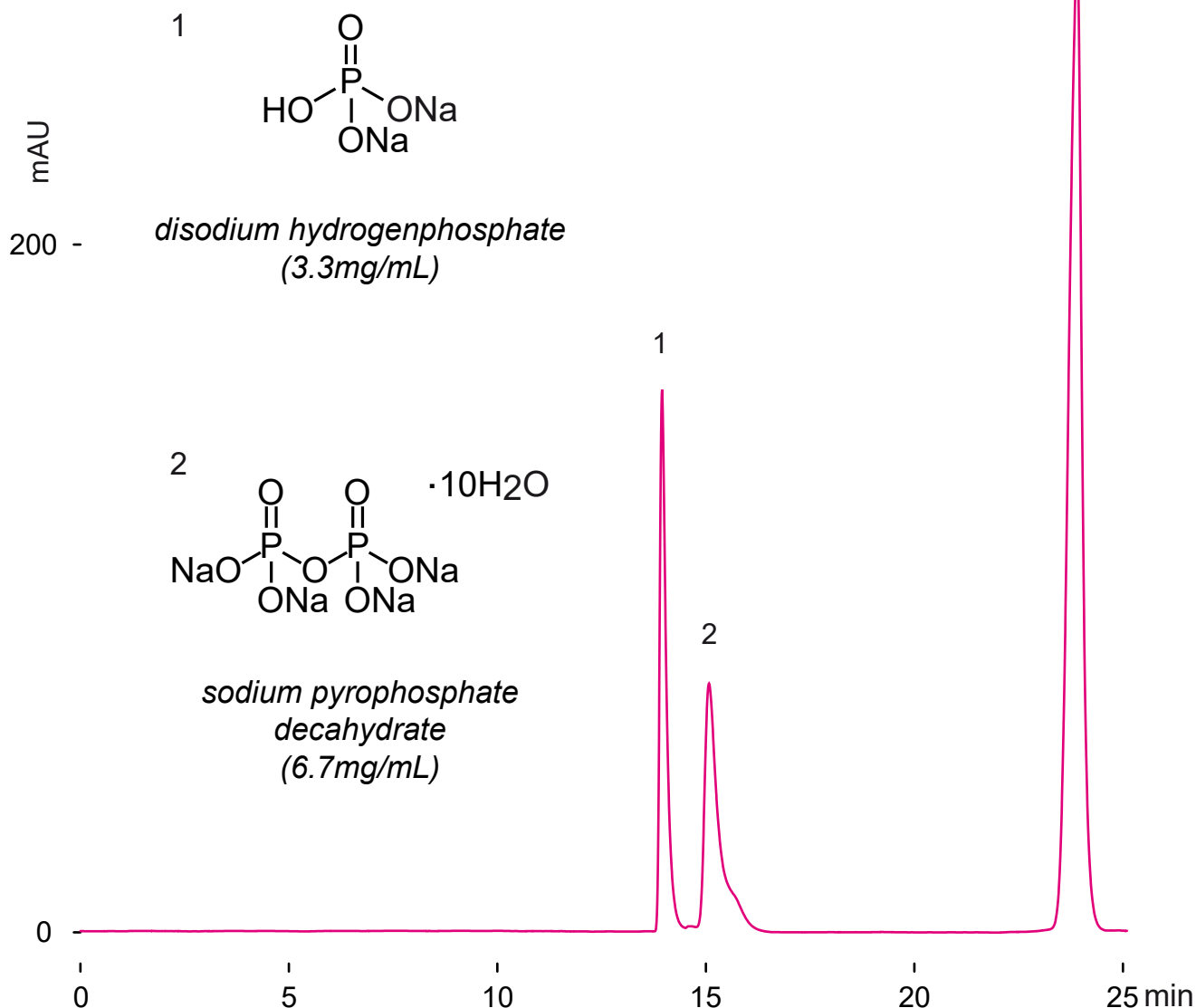
150 x 2 mm

HPLC COLUMN APPLICATION

Pyrophosphoric acid, phosphoric acid

ピロリン酸、リン酸

Na



Nardis ND-NX, 150 x 2 mm

A: acetonitrile / 100mM ammonium acetate = 90 / 10

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

0-90%B (0-15min), 90%B (15-25min)

0.2mL/min (4MPa), 37°C,

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

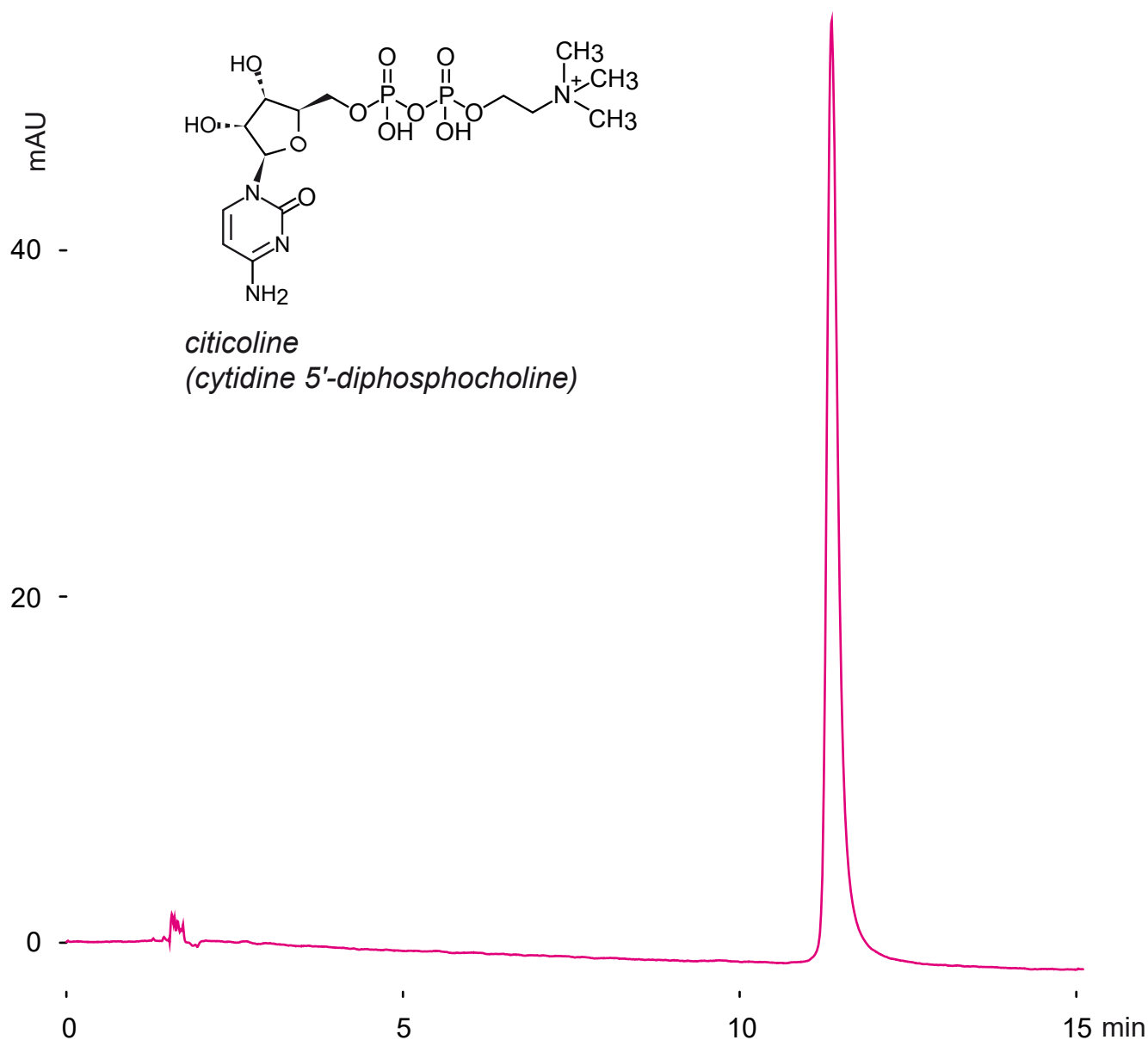
3μL (3.3-6.7mg/mL, water)

Nardis ND-NX

150 x 4.6 mm

HPLC COLUMN APPLICATION
Citicoline (psychostimulant)

シチコリン (神経刺激薬) の分析



Nardis ND-NX, 150 x 4.6 mm

A: acetonitrile / formic acid = 100 / 0.5

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

50-100%B (0-15min)

1.0mL/min (6MPa), 37°C, 260nm

10μL (3mg/mL, water/HCOOH=100/1)

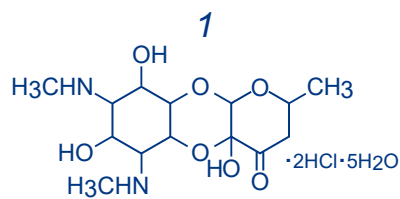
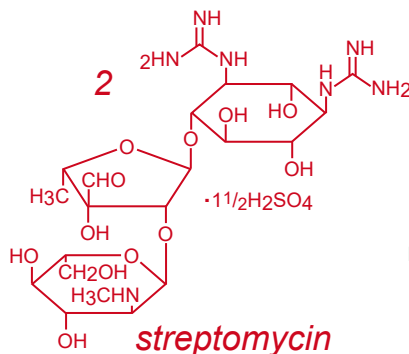
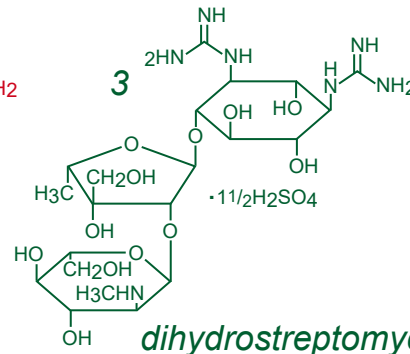
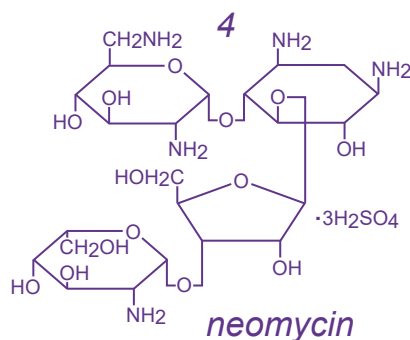
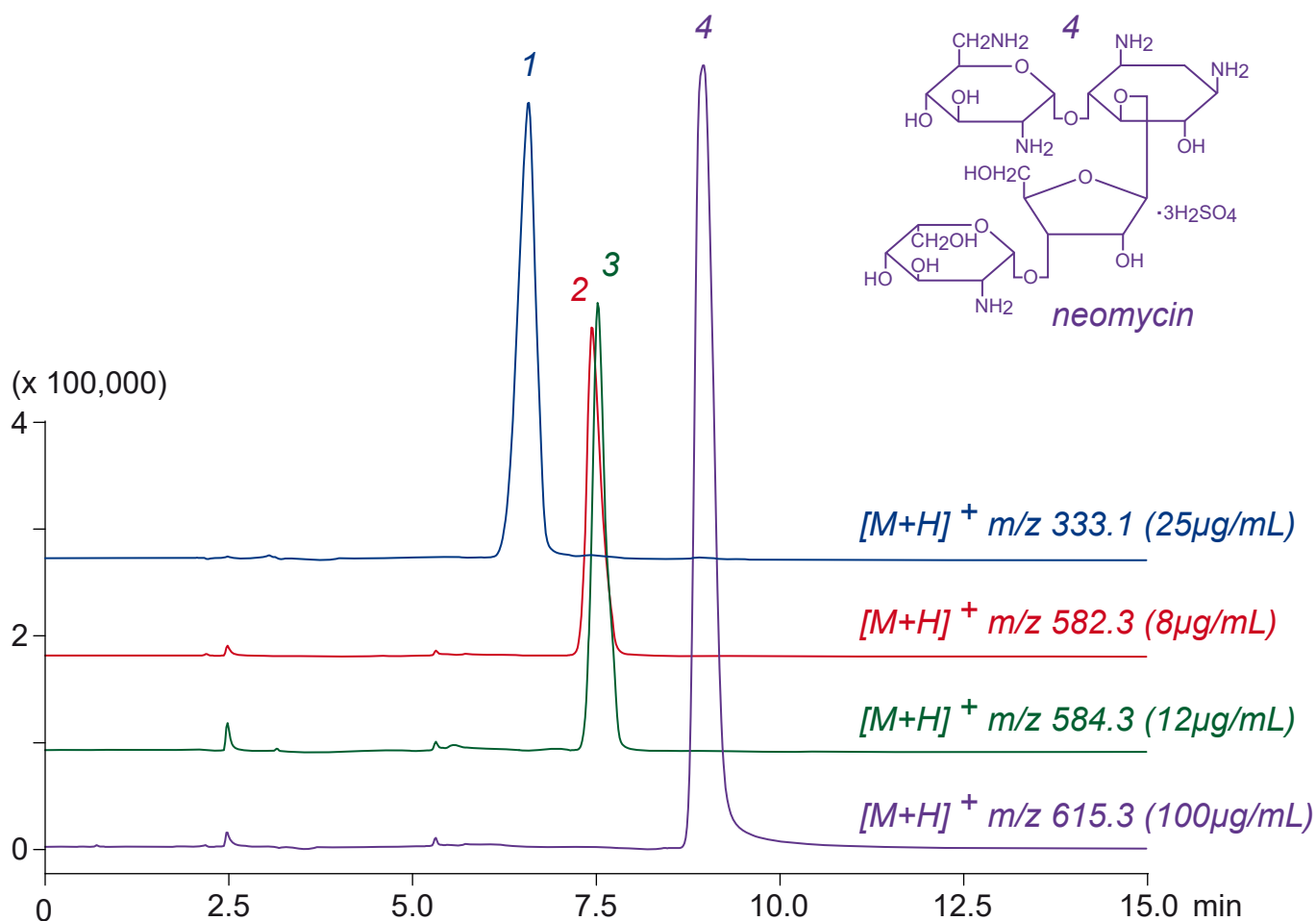
Nardis ND-NX

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


spectinomycin

streptomycin

dihydrostreptomycin

neomycin


Nardis ND-NX, 150 x 3 mm

A: acetonitrile / formic acid = 100 / 0.5

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

0%B (0-1min), 0-100%B (1-10min), 100%B (10-15min)

0.4mL/min (4MPa), 37°C, Single Quad. MS (ESI)

10µL (8-100µg/mL, 0.1% formic acid)

Nardis ND-NX

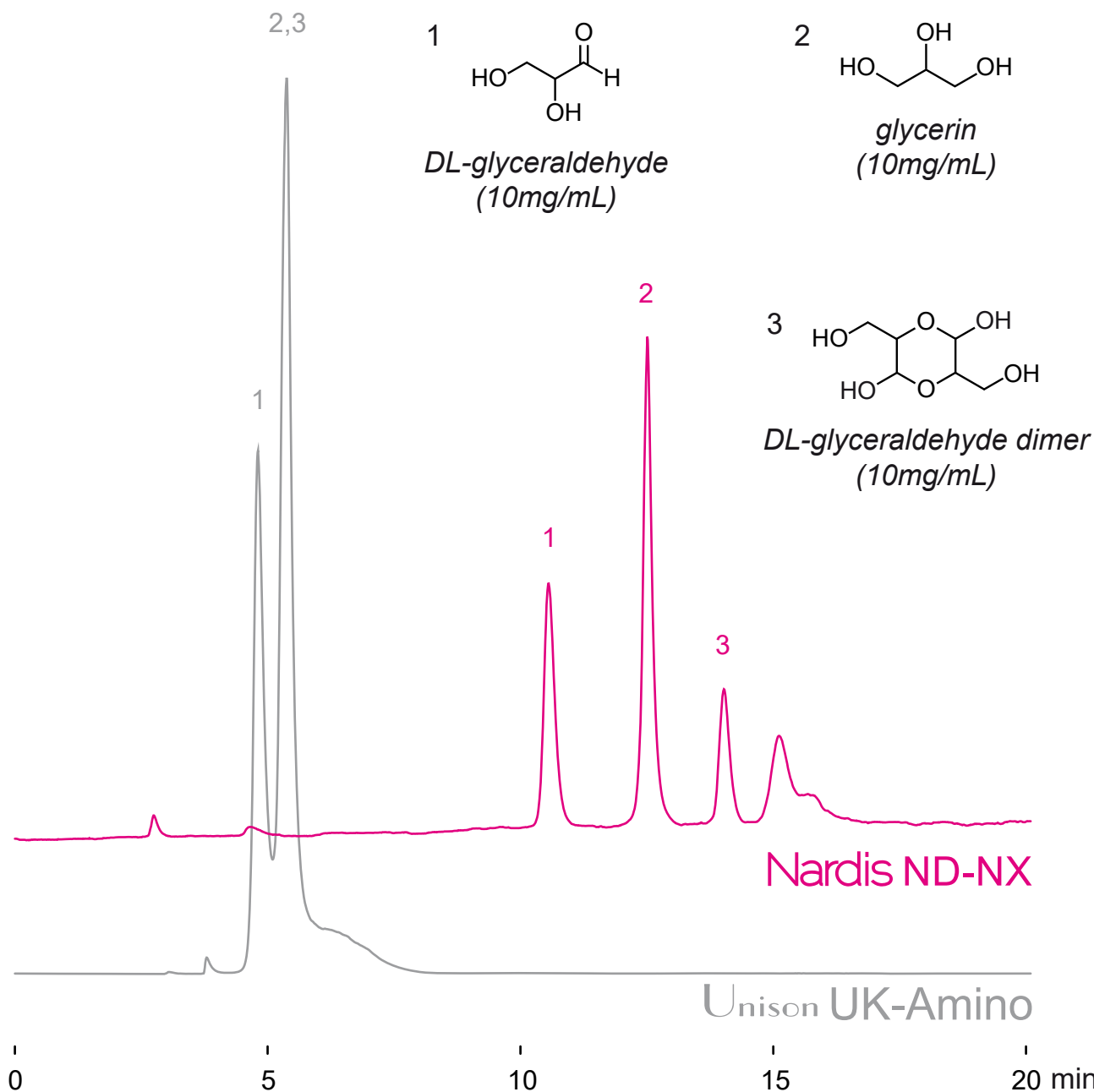
Unison UK-Amino

250 x 4.6 mm

HPLC COLUMN APPLICATION

DL-glyceraldehyde,dimer

DL-グリセルアルデヒド、二量体の分析



250 x 4.6 mm

A: acetonitrile

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

15 -25%B (0 -20 min), 100%B (20 -25 min)

1.0 mL/min (7MPa), 60°C

ELSD (spray chamber 60°C, drift chamber 60°C)

10 µL (1.0mg/mL, water/HCOOH=100/1)

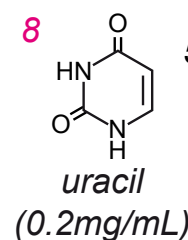
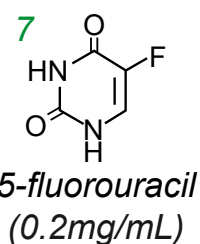
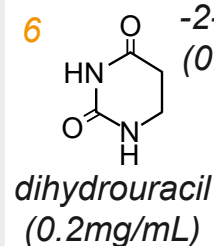
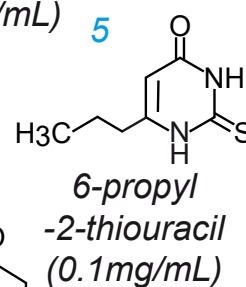
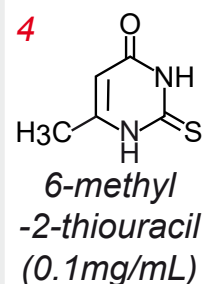
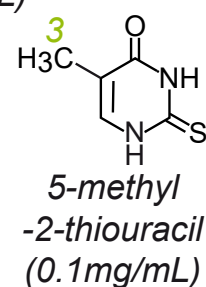
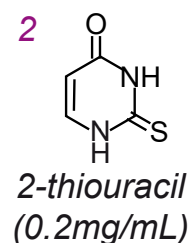
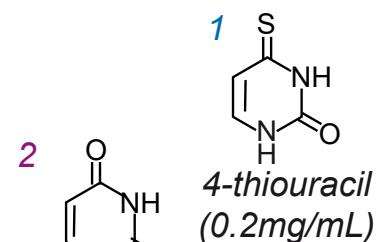
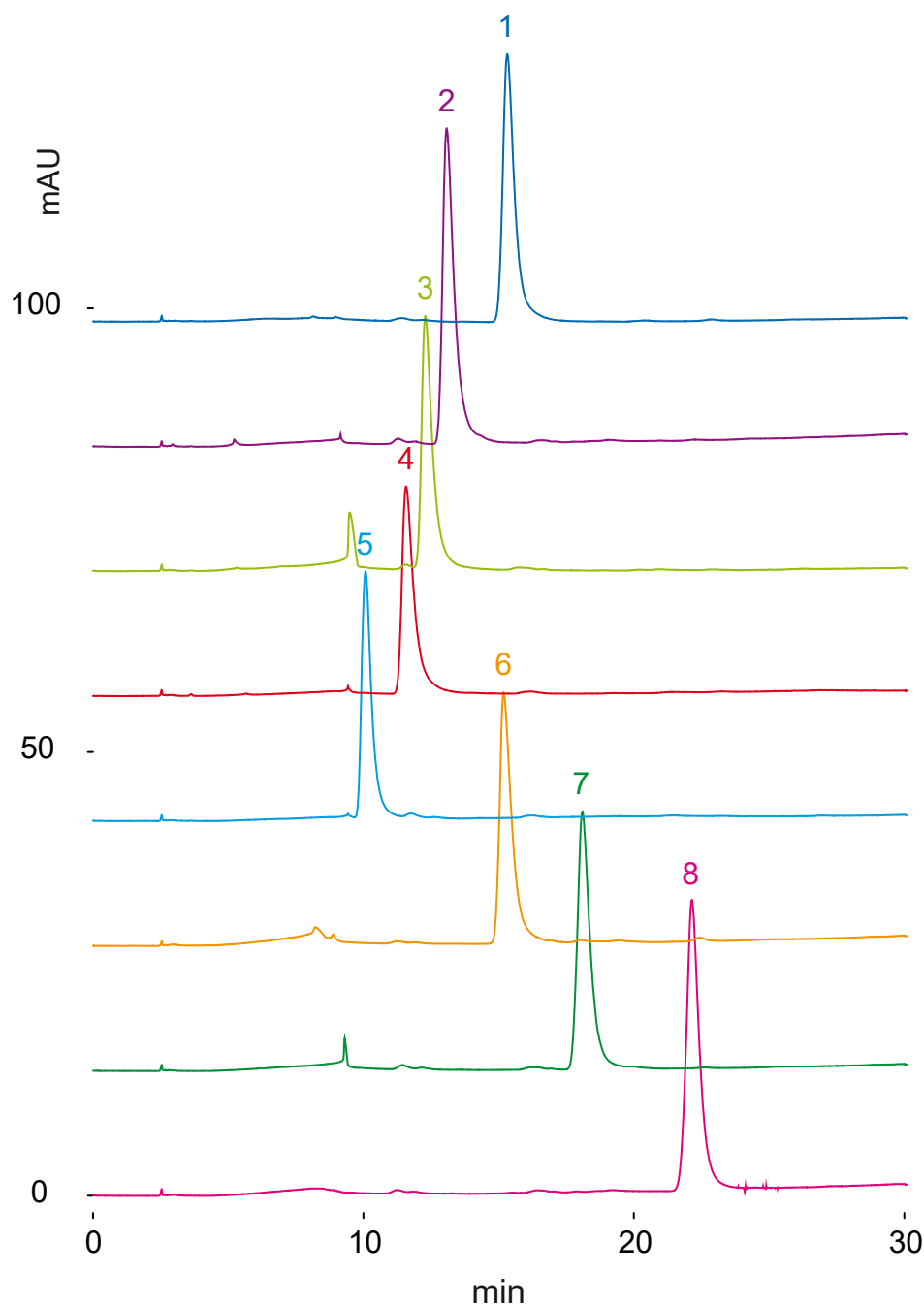
Nardis ND-NX

250 x 4.6 mm

HPLC COLUMN APPLICATION

Uracil related compounds

ウラシル関連化合物



Nardis ND-NX, 250 x 4.6 mm

A: acetonitrile

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

0 -10%B (0 -30 min), 100%B (30 -35 min)

1.0 mL/min, 37°C, 230nm

10 μ L (0.1-0.2mg/mL, diluted with water/HCOOH=100/1)

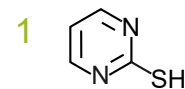
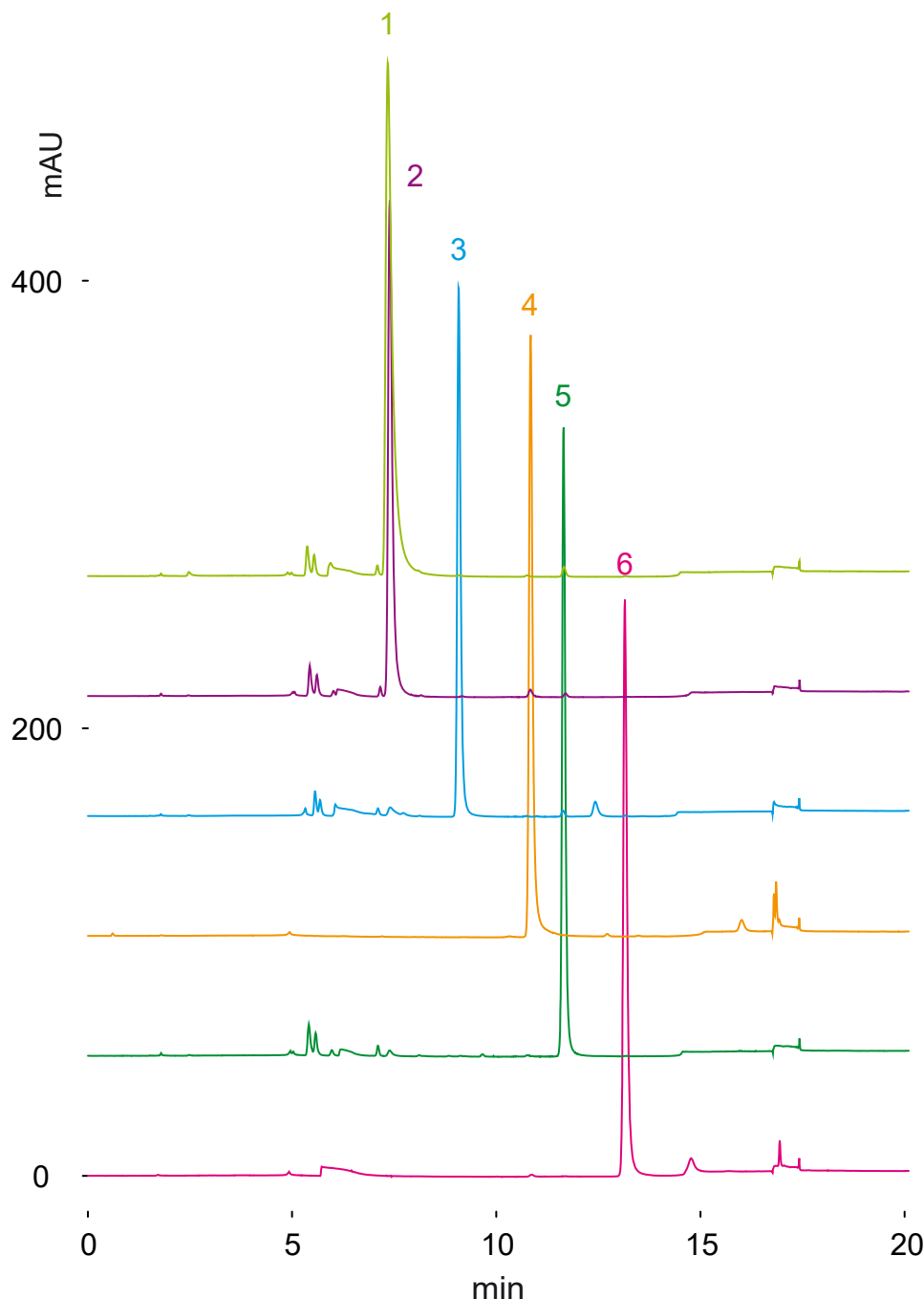
Nardis ND-NX

150 x 4.6 mm

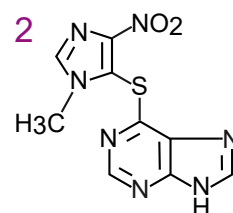
HPLC COLUMN APPLICATION

Mercaptopurine (Antineoplastic)

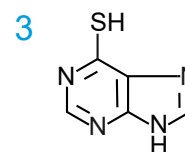
メルカプトプリン (抗悪性腫瘍薬)



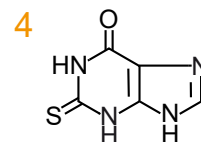
2-mercaptopyrimidine
(0.08mg/mL)



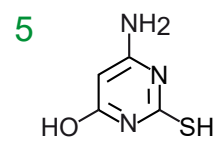
azathioprine
(0.1mg/mL)



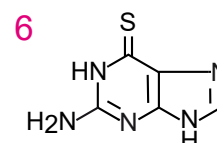
6-mercaptopurine
(0.4mg/mL)



2-thioxanthine
(0.1mg/mL)



4-amino-6-hydroxy
-2-mercaptopyrimidine
(0.06mg/mL)



6-thioguanine
(0.5mg/mL)

Nardis ND-NX, 150 x 4.6 mm

A: acetonitrile

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

0 -40%B (0 -15 min), 100%B (15 -20 min)

1.0 mL/min (5MPa), 37°C, 280nm

10 µL (0.06-0.5mg/mL, diluted with water/HCOOH=100/1)

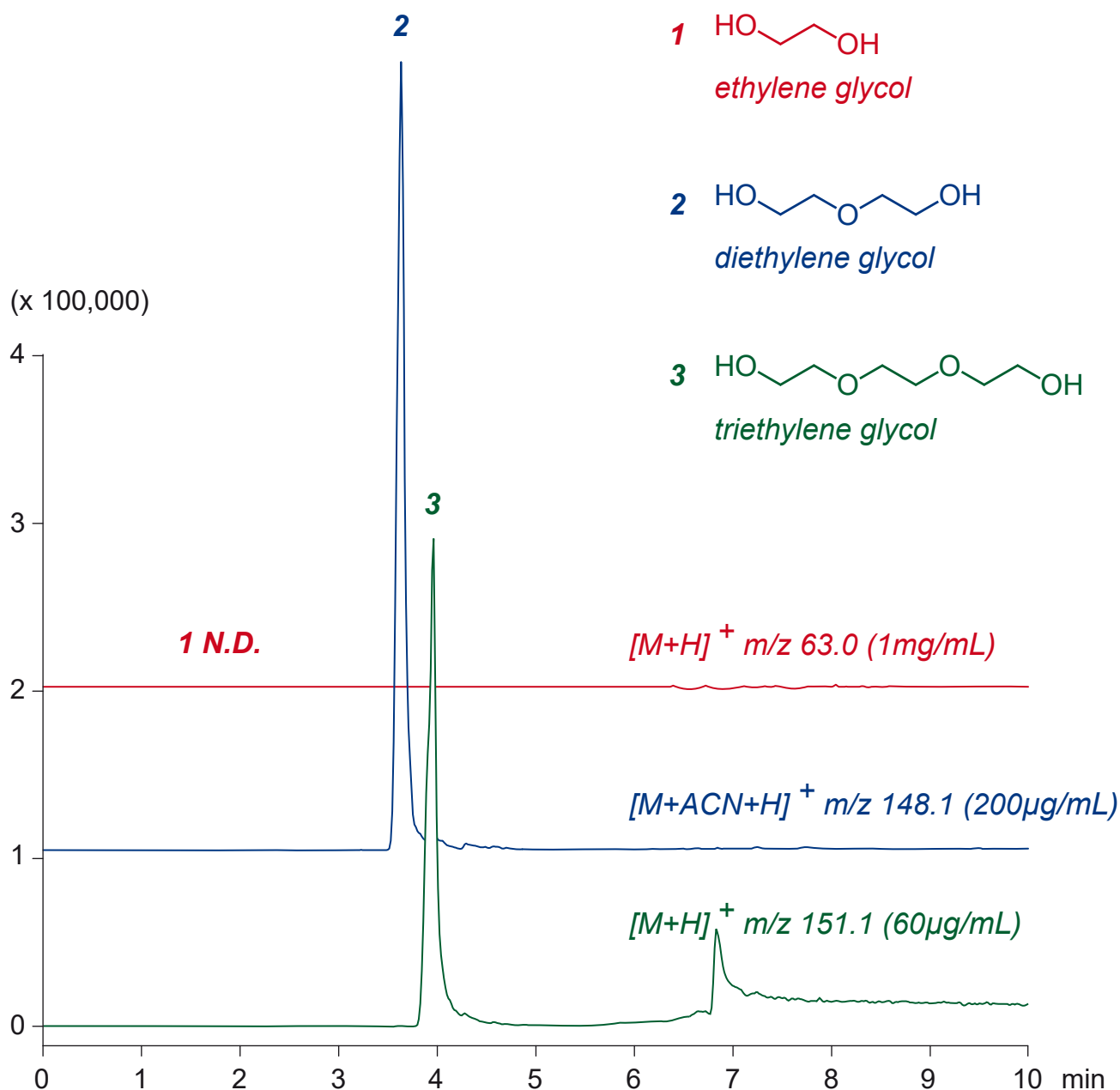
Nardis ND-NX

150 x 3 mm

HPLC COLUMN APPLICATION

LC-MS: Ethylene glycols

エチレングリコール類の LC-MS 分析



Nardis ND-X, 150 x 3 mm

A: acetonitrile / acetic acid = 100 / 0.5

B: acetonitrile / water / acetic acid = 10 / 90 / 0.5

5%B (0-1min), 5-100%B (1-10min)

0.4mL/min (4MPa), 37°C, Single Quad. MS (ESI)

3µL (60-1000µg/mL, acetonitrile / water = 90 / 10)

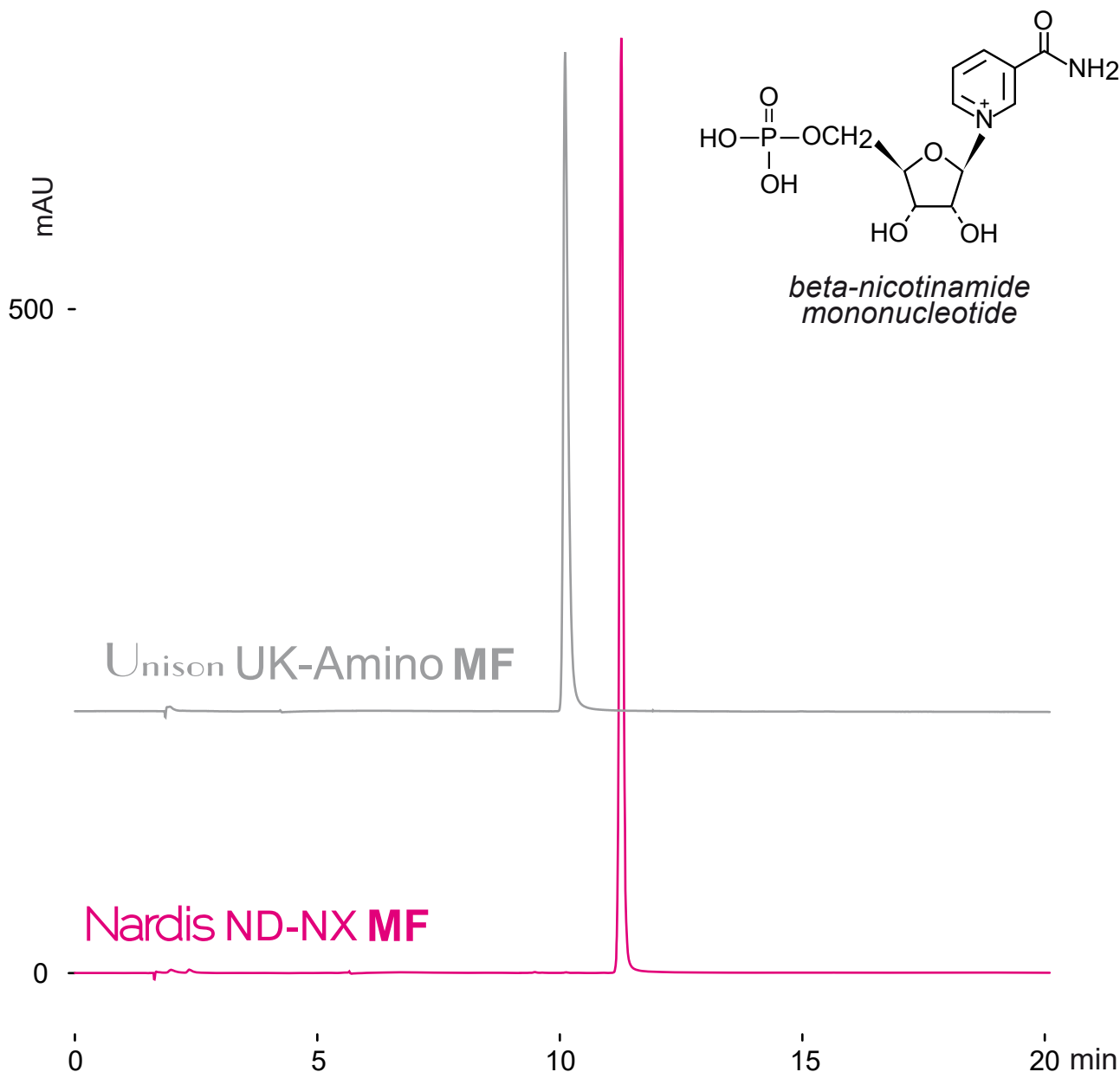
Nardis ND-NX MF

Unison UK-Amino MF 150 x 2 mm

HPLC COLUMN APPLICATION

Beta-nicotinamide mononucleotide(NMN)

β - ニコチンアミドモノヌクレオチド(NMN)の分析



150 x 2 mm

A: acetonitrile

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

25 -100%B (0 -15 min), 100%B (15 -20 min)

0.2 mL/min (6-7MPa), 37°C, 260nm

3 μL (1.0mg/mL, water)

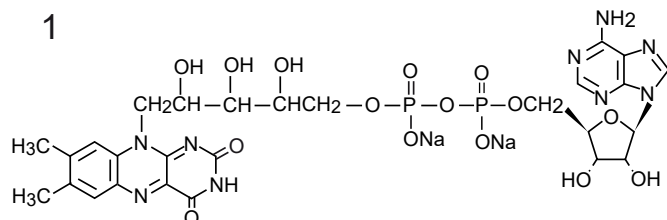
Nardis ND-NX **MF**

150 x 2 mm

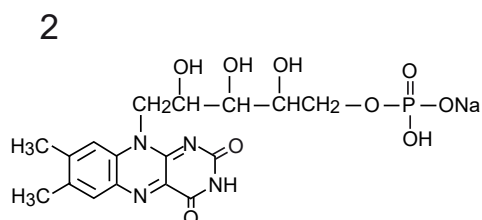
HPLC COLUMN APPLICATION

Flavin coenzyme

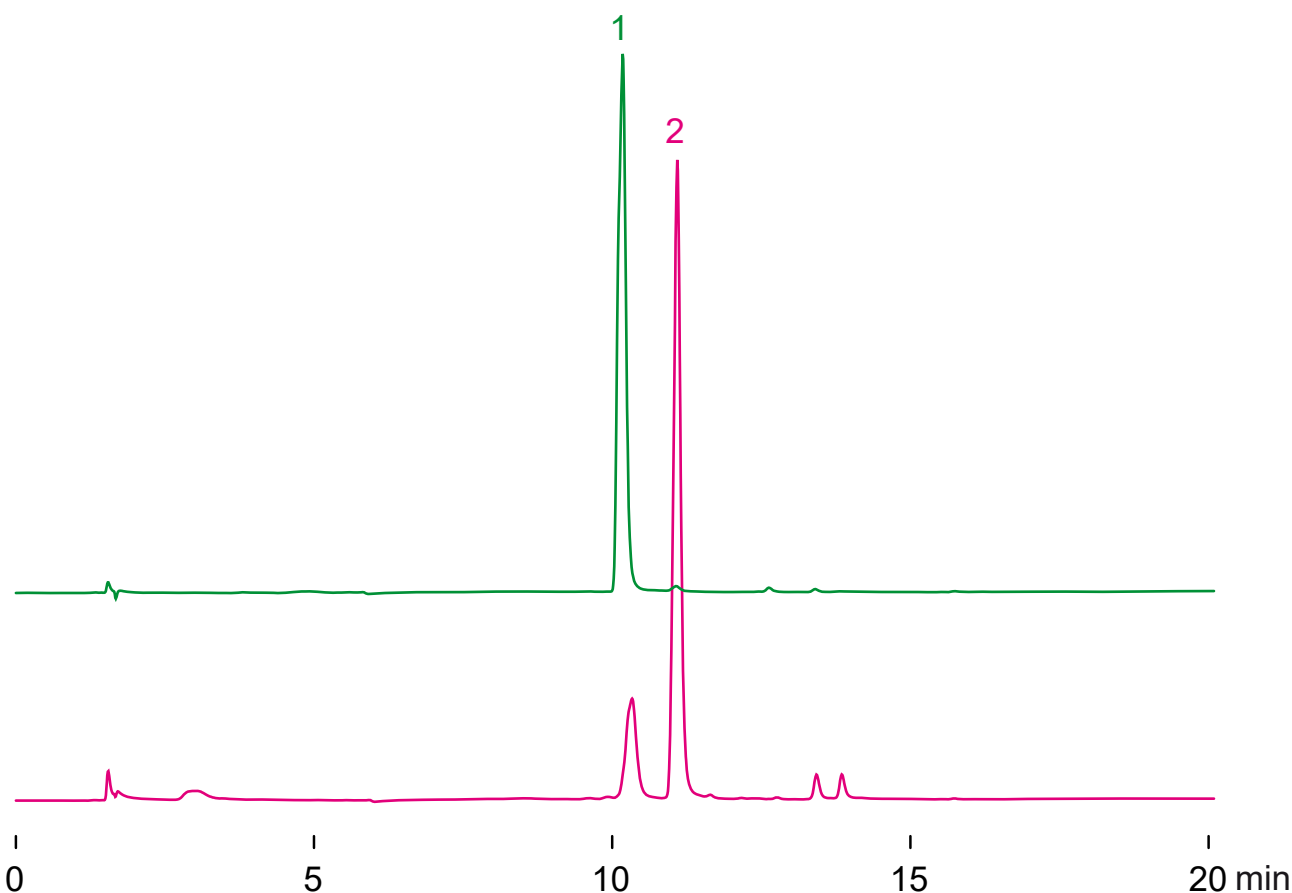
フラビン補酵素



flavin adenine dinucleotide
(FAD, 0.2mg/mL)



flavin mononucleotide
(FMN, 0.2mg/mL)



Nardis ND-NX MF, 150 x 2 mm

A: acetonitrile

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

20-70%B (0-20min)

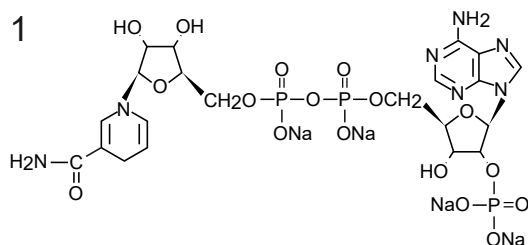
0.2mL/min (5MPa), 37°C, 260nm

2μL (0.2mg/mL, 100mM ammonium acetate)

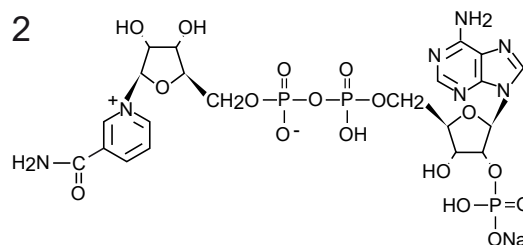
Nardis ND-NX **MF** 150 x 2 mm **HPLC COLUMN APPLICATION**

Coenzymes (Nicotinamide adenine dinucleotide phosphate)

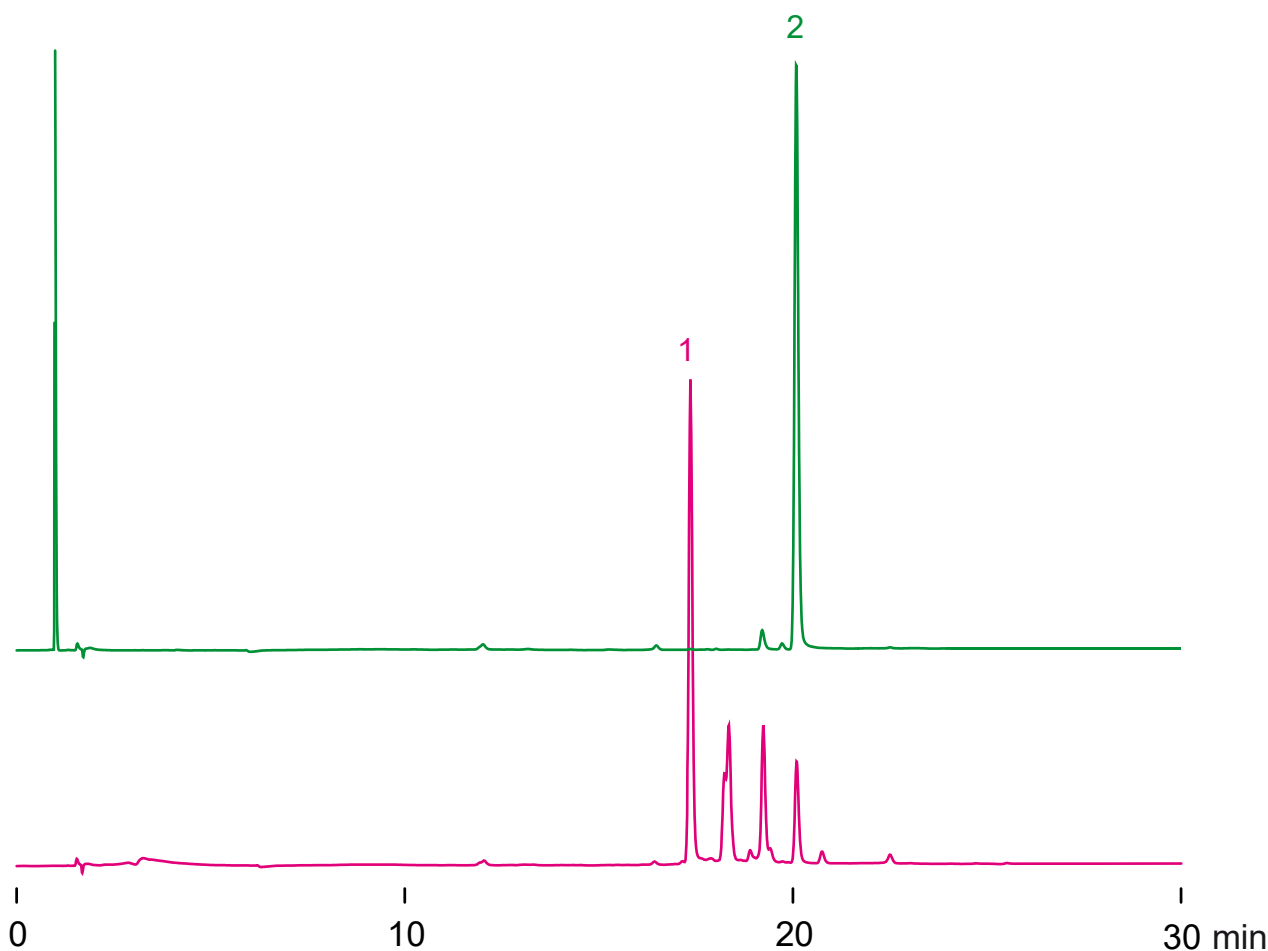
補酵素 (ニコチンアミドアデニンジヌクレオチドリン酸)



NADPH (0.6mg/mL)



NADP (0.2mg/mL)



Nardis ND-NX MF, 150 x 2 mm

A: acetonitrile

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

20-70%B (0-30min)

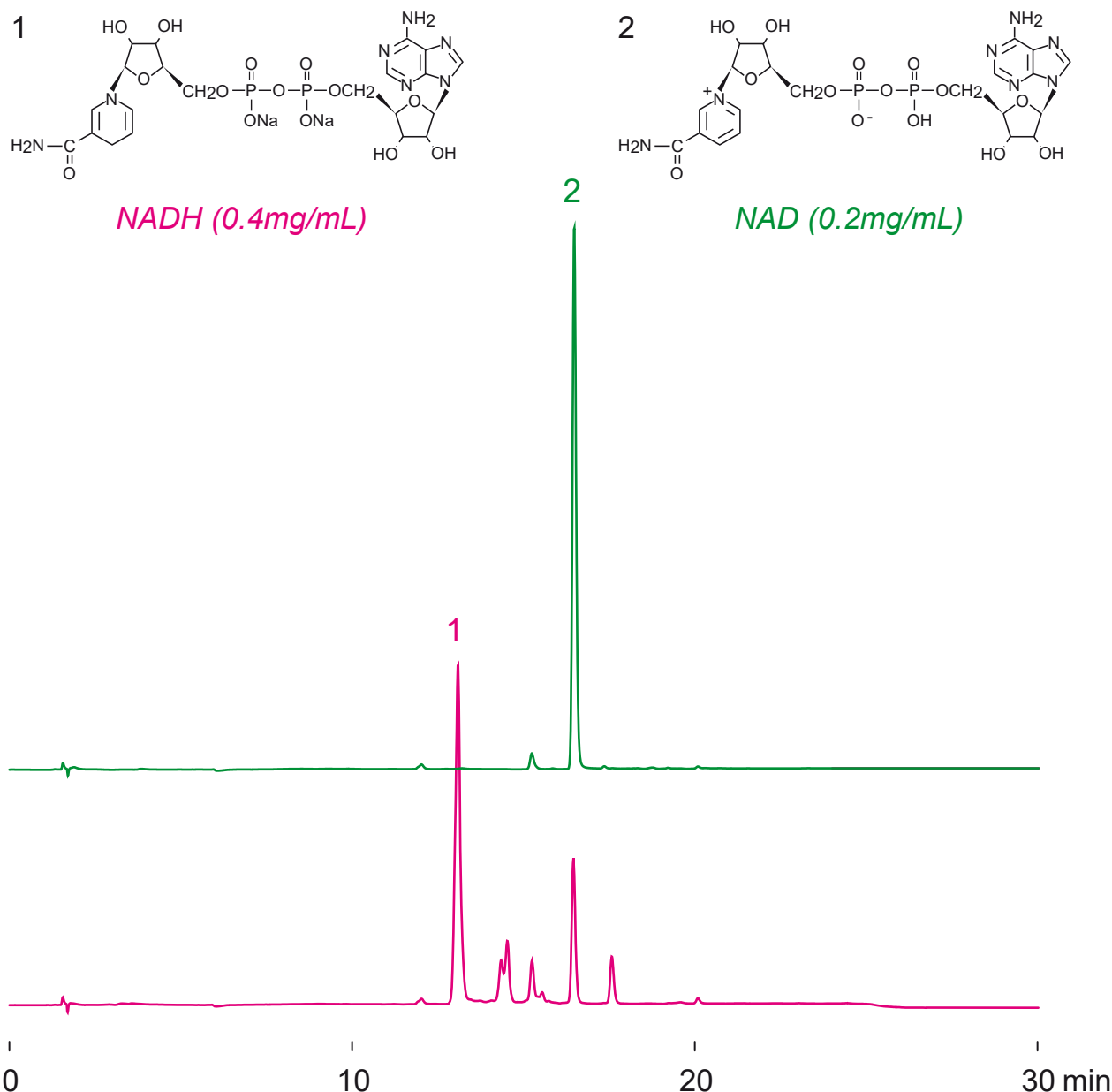
0.2mL/min (5MPa), 37°C, 260nm

2μL (0.2-0.6mg/mL, 100mM ammonium acetate)

Nardis ND-NX **MF**
150 x 2 mm
HPLC COLUMN APPLICATION

Coenzymes (Nicotinamide adenine dinucleotides)

補酵素 (ニコチンアミド アデニン ジヌクレオチド)



Nardis ND-NX MF, 150 x 2 mm
A: acetonitrile
B: acetonitrile / 100mM ammonium acetate = 10 / 90
20-70%B (0-30min)
0.2mL/min (5MPa), 37°C, 260nm
2μL (0.2-0.4mg/mL, 100mM ammonium acetate)

Nardis ND-NX MF

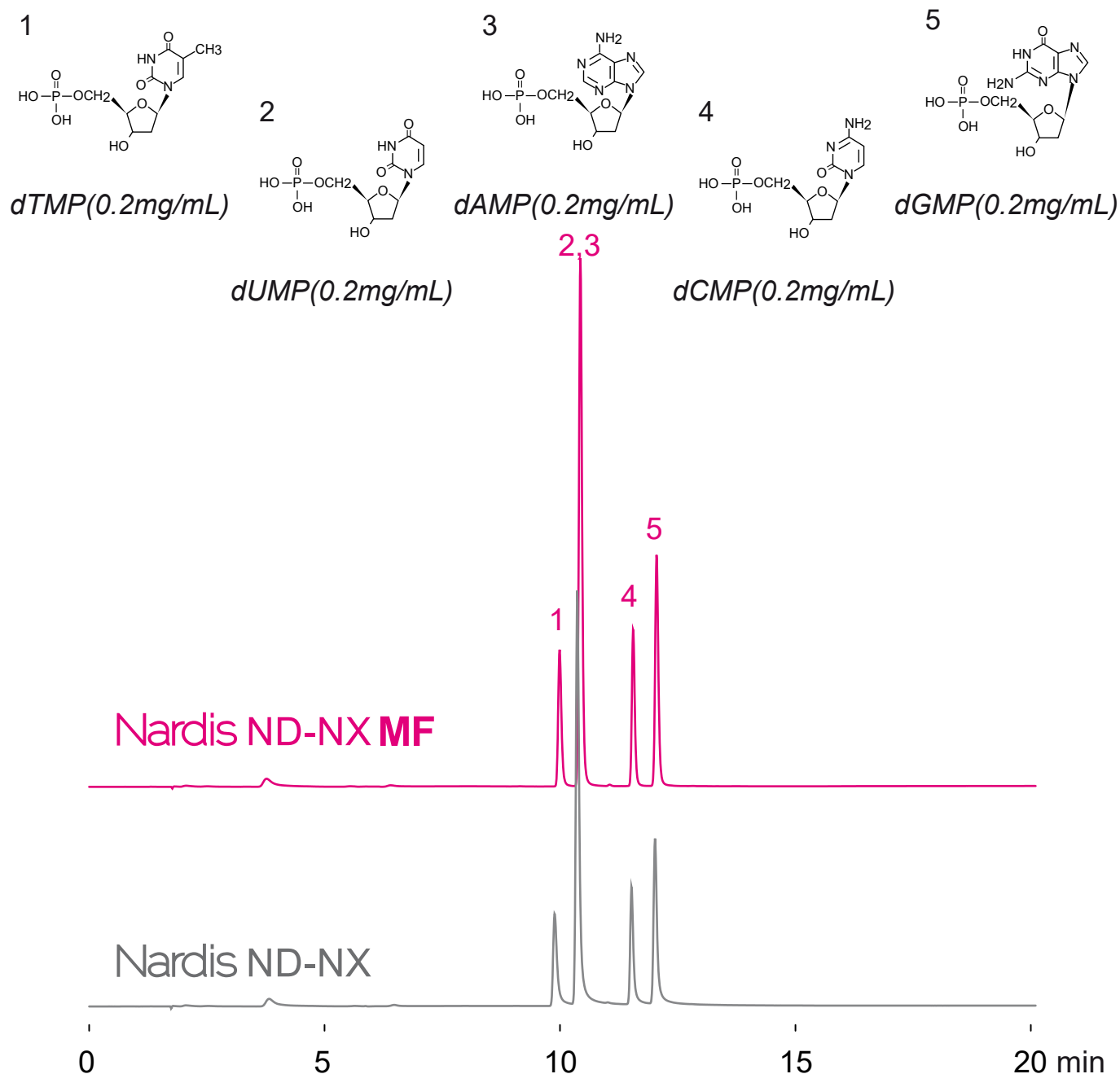
Nardis ND-NX

150 x 2 mm

HPLC COLUMN APPLICATION

Deoxymononucleotides

デオキシモノヌクレオチド



150 x 2 mm

A: acetonitrile

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

20-90%B (0-20min)

0.2mL/min (5MPa), 37°C, 260nm

2.0μL (200μg/mL, 100mM ammonium acetate)

Nardis ND-NX MF

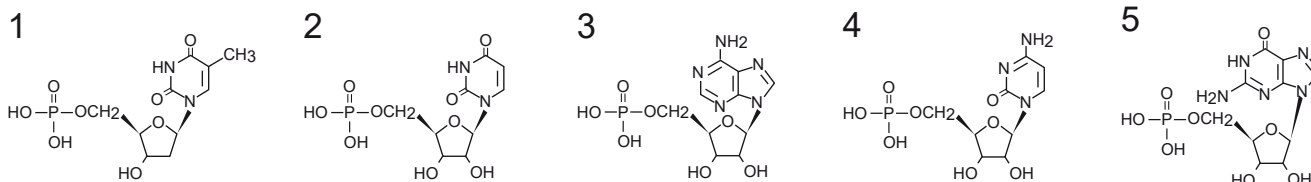
Nardis ND-NX

150 x 2 mm

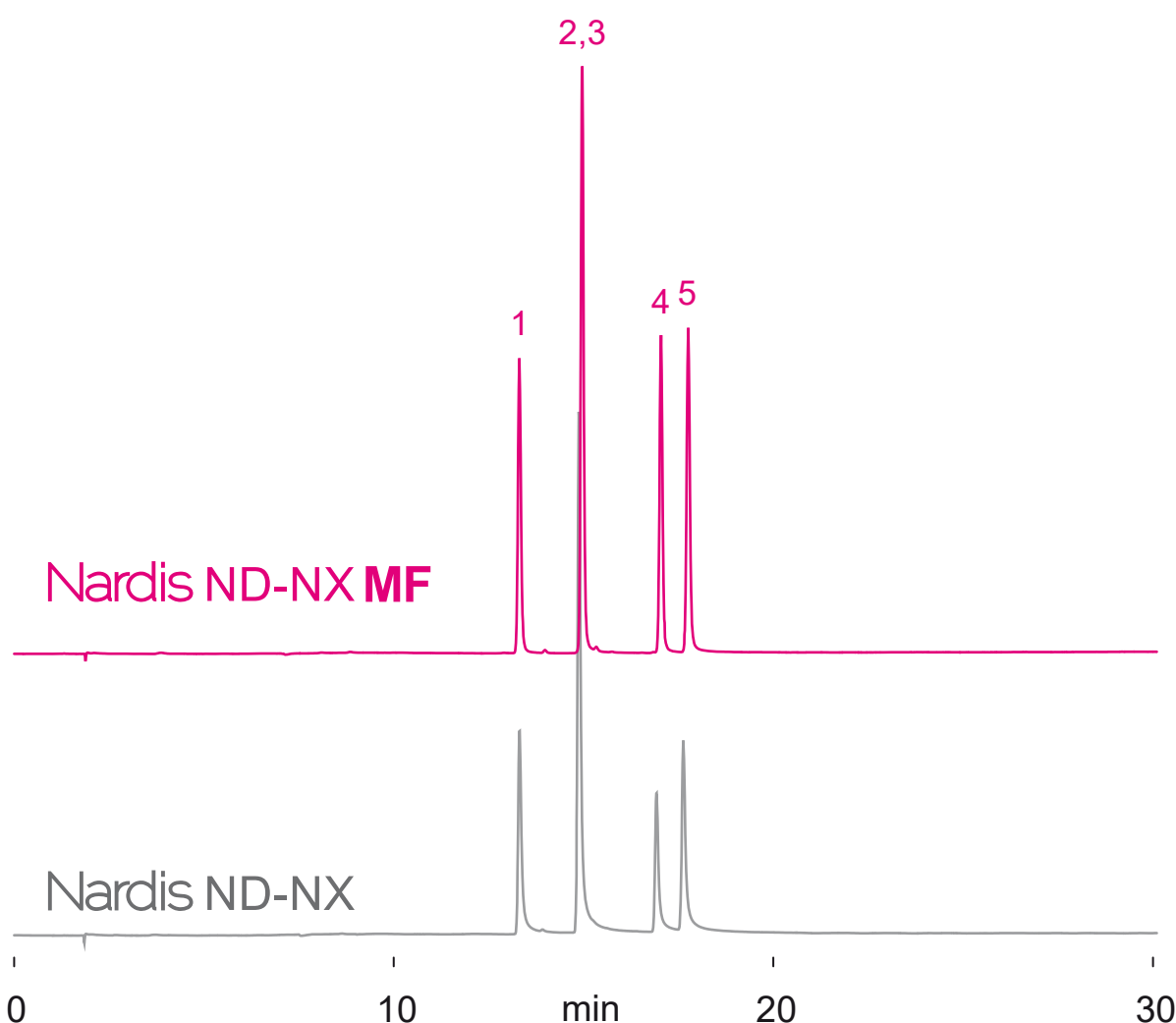
HPLC COLUMN APPLICATION

Mononucleotides

モノヌクレオチド



dTMP(0.2mg/mL) UMP(0.2mg/mL) AMP(0.2mg/mL) CMP(0.2mg/mL) GMP(0.2mg/mL)



150 x 2 mm

A: acetonitrile

B: acetonitrile / 100mM ammonium acetate = 20 / 80

20-90%B (0-30min)

0.2mL/min (5MPa), 37°C, 260nm

2.0μL (200μg/mL, 100mM ammonium acetate)

Nardis ND-NX MF

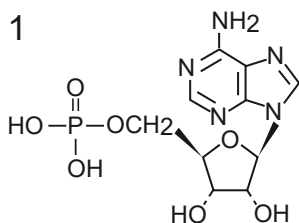
Nardis ND-NX

150 x 2 mm

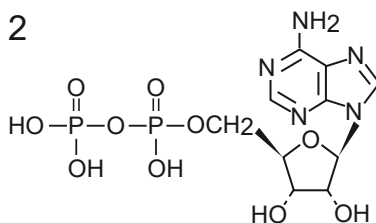
HPLC COLUMN APPLICATION

Adenosine phosphates

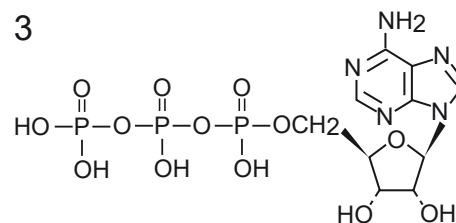
アデノシンリン酸の分析



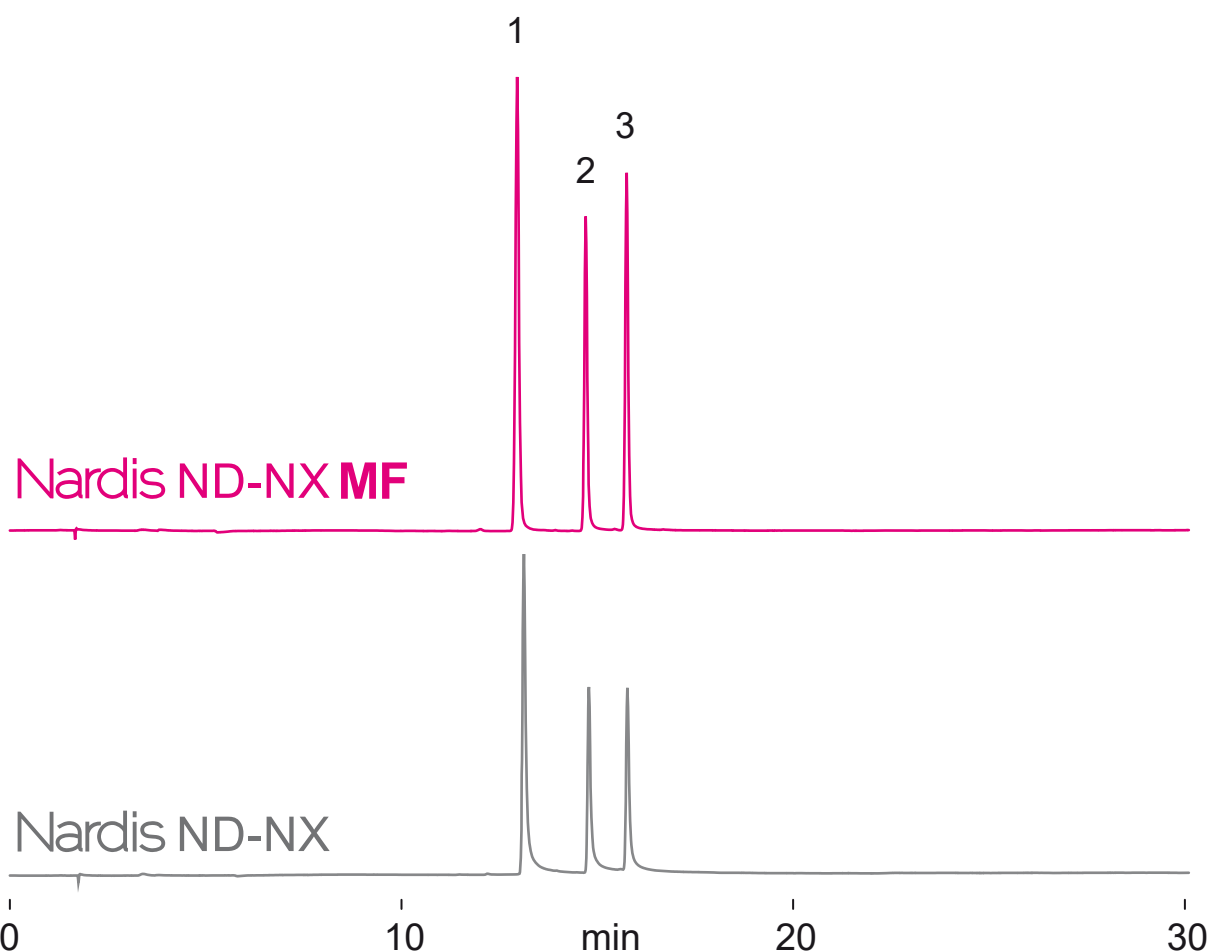
AMP (0.2mg/mL)



ADP (0.2mg/mL)



ATP (0.2mg/mL)



150 x 2 mm

A: acetonitrile

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

20-90%B (0-30min)

0.2mL/min (5MPa), 37°C, 260nm

2.0μL (200μg/mL, 100mM ammonium acetate)

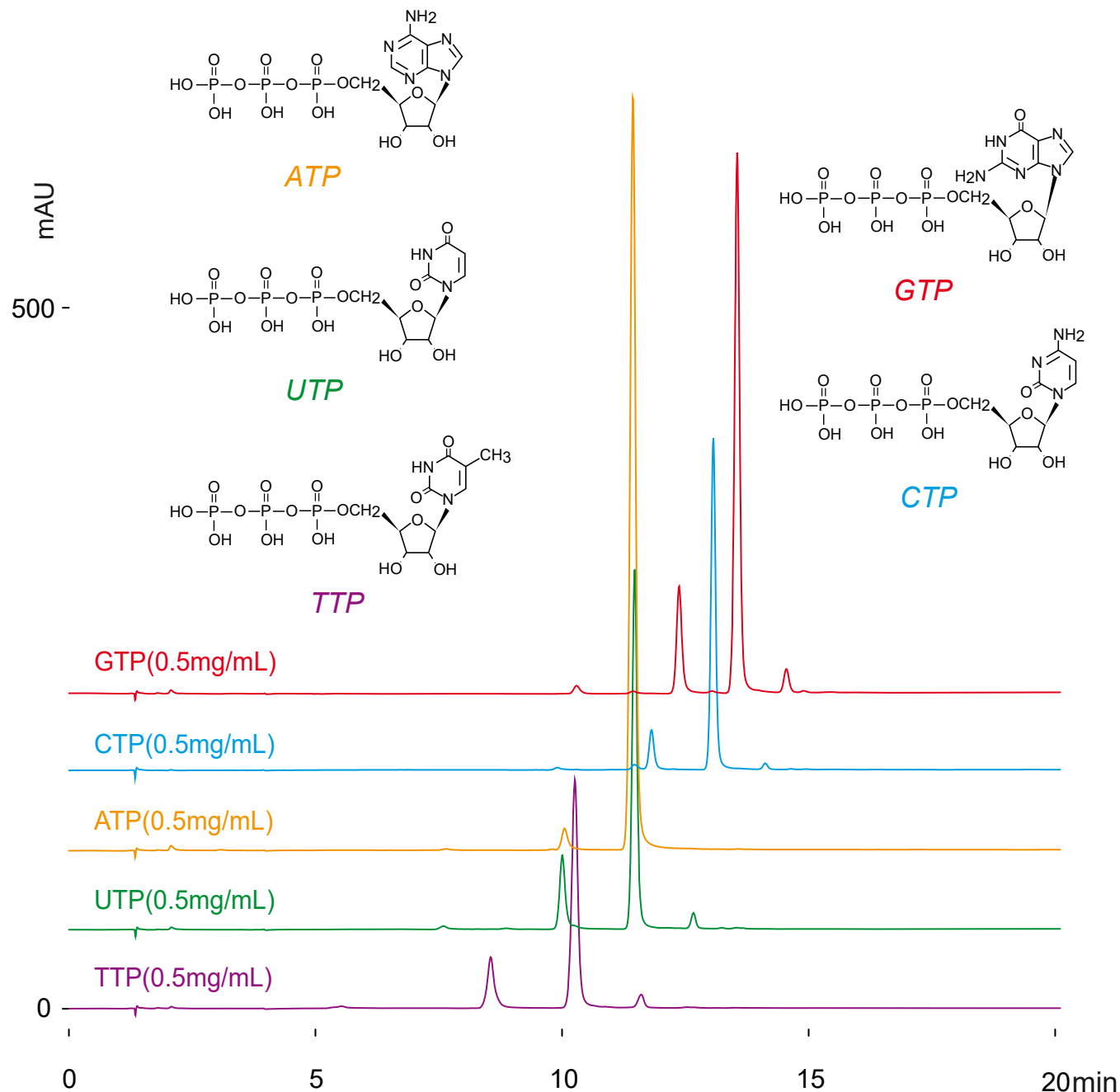
Nardis ND-NX MF

150 x 2 mm

HPLC COLUMN APPLICATION

Nucleoside triphosphate

ヌクレオシド三リン酸の分析



Nardis ND-NX MF, 150 x 2 mm

A: acetonitrile

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

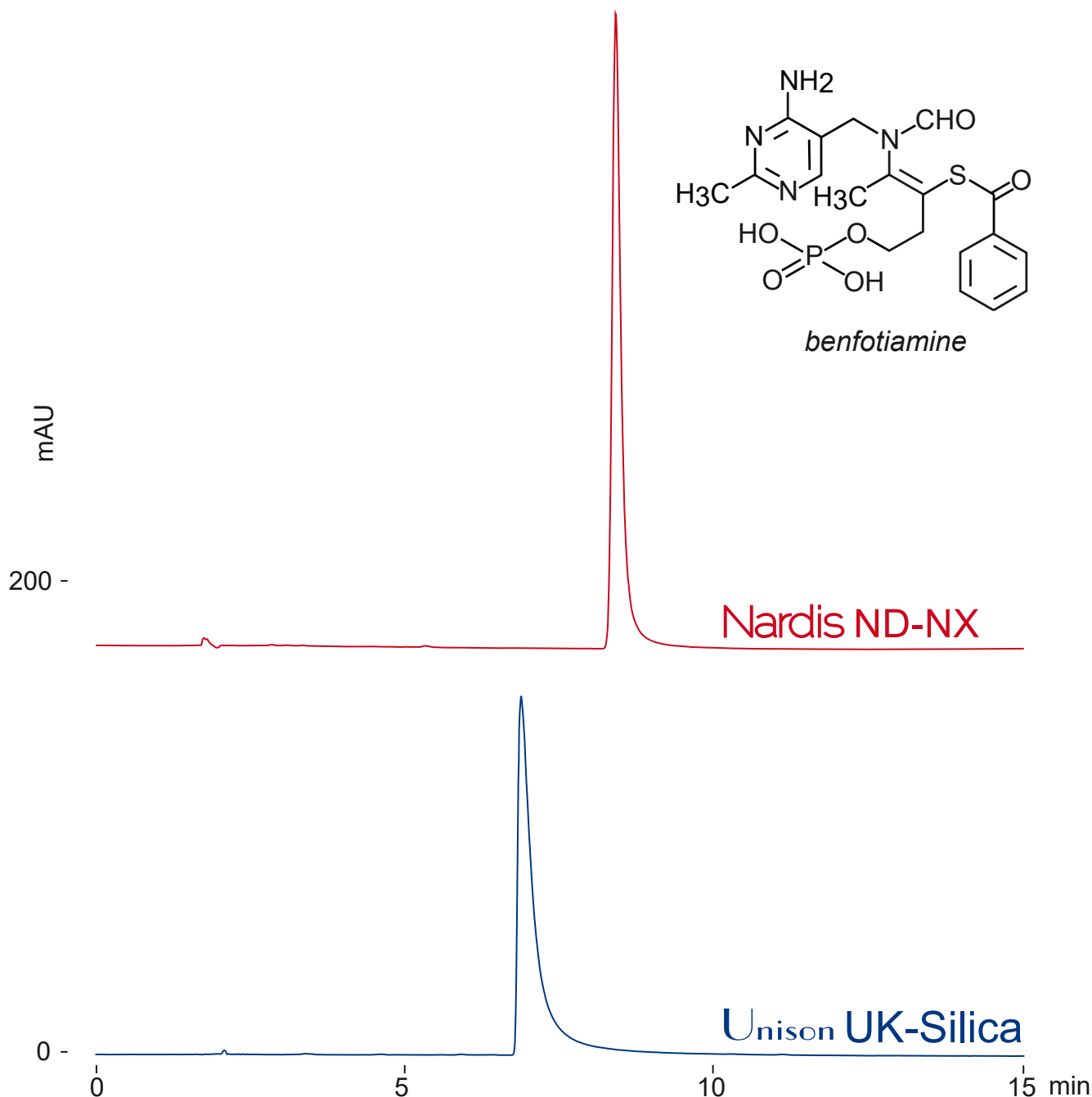
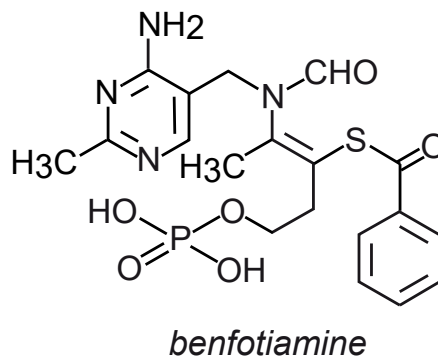
50 -100%B (0 -15 min), 100%B (15 -20 min)

0.2 mL/min (6MPa), 37°C, 260nm

3 µL (0.5mg/mL, water/HCOOH=100/1)

Benfotiamine (Vitamin B1 derivatives)

ベンフォチアミン (ビタミンB1誘導体)



150 x 4.6 mm

A : acetonitrile / acetic acid = 100 / 0.5

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

20-100%B (0-15min)

1mL/min (7MPa), 37°C, 260nm

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