

HPLC applications: Med, Excel & Europe columns



- Ketones
- Alcohols
- Aminoacids
- Aminopyridines
- Angiotensin
- Anti-HIV agents
- Anticancers
- Anticholigenic drugs
- Antiepileptics
- Antioxidants
- Ascorbic acid glycosides
- β -Blockers
- Catecholamines
- Cinchona alkaloids
- Cyclodextrin derivatives
- 2,2'-Dipyridyl Diuretics
- Erythropoietin(EPO)
- Eye drops
- Fat-soluble Vitamins
- Flavin Nucleotides
- Flavonoids
- Fungicides
- Glycolic & Lactic acids
- Histamine antagonists
- Isomalto –oligosaccharides
- Lipid-lowering drugs
- Nitroanilines
- Non-steroidal drugs
- Nucleosides
- OligoNucleotides
- Organic Acids
- Parabens
- Penicillin
-

Acetylacetone

Column: **TRACER EXCEL ODS-A** 5 µm, P/N TR-016167

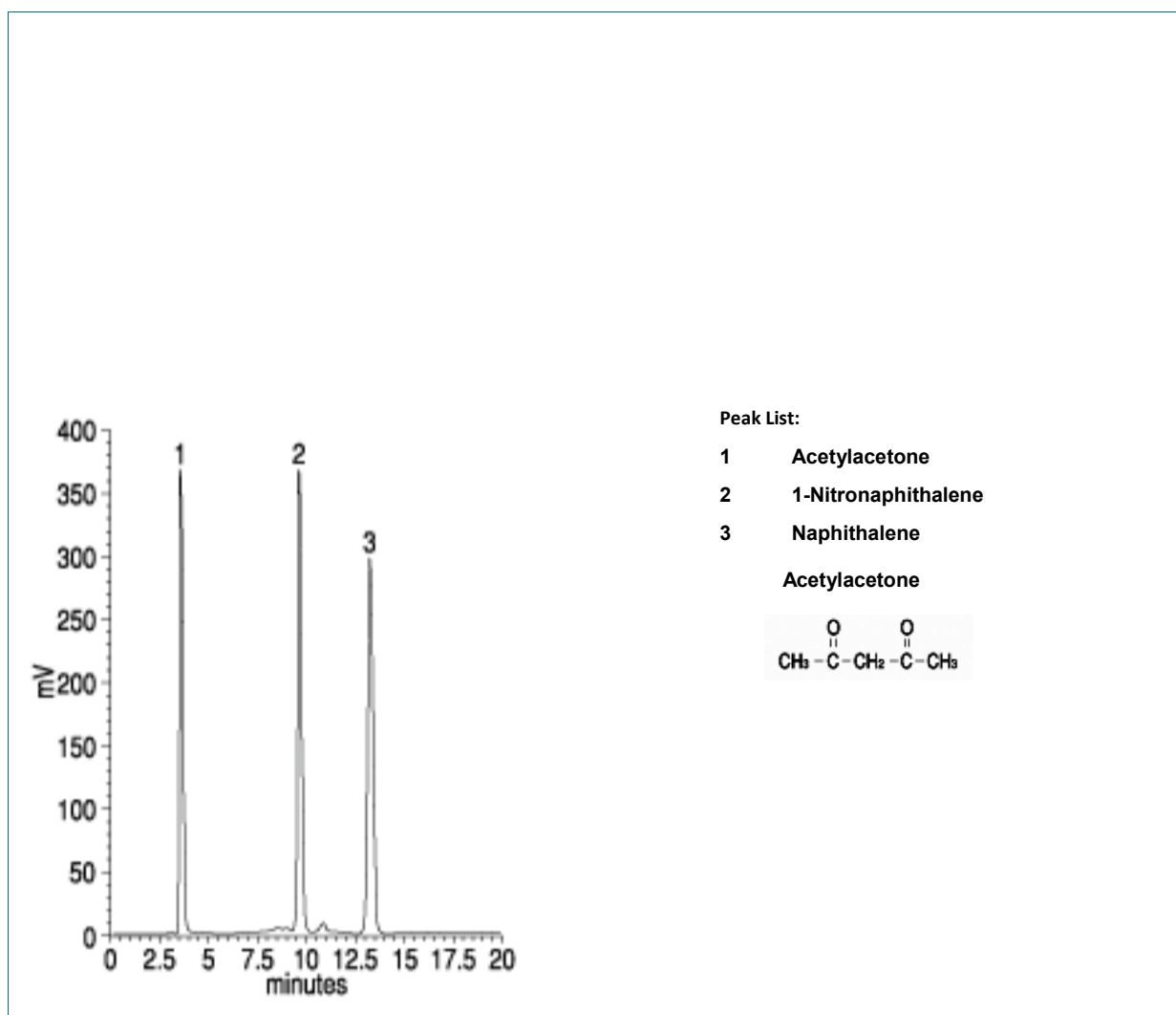
Size: 150 mm x 7.8 mm ID

Eluent: 30 mM Sodium Phosphate
(H 2,5 with H₃PO₄)

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 40°C



TKL 6001

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Alcohols

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016343

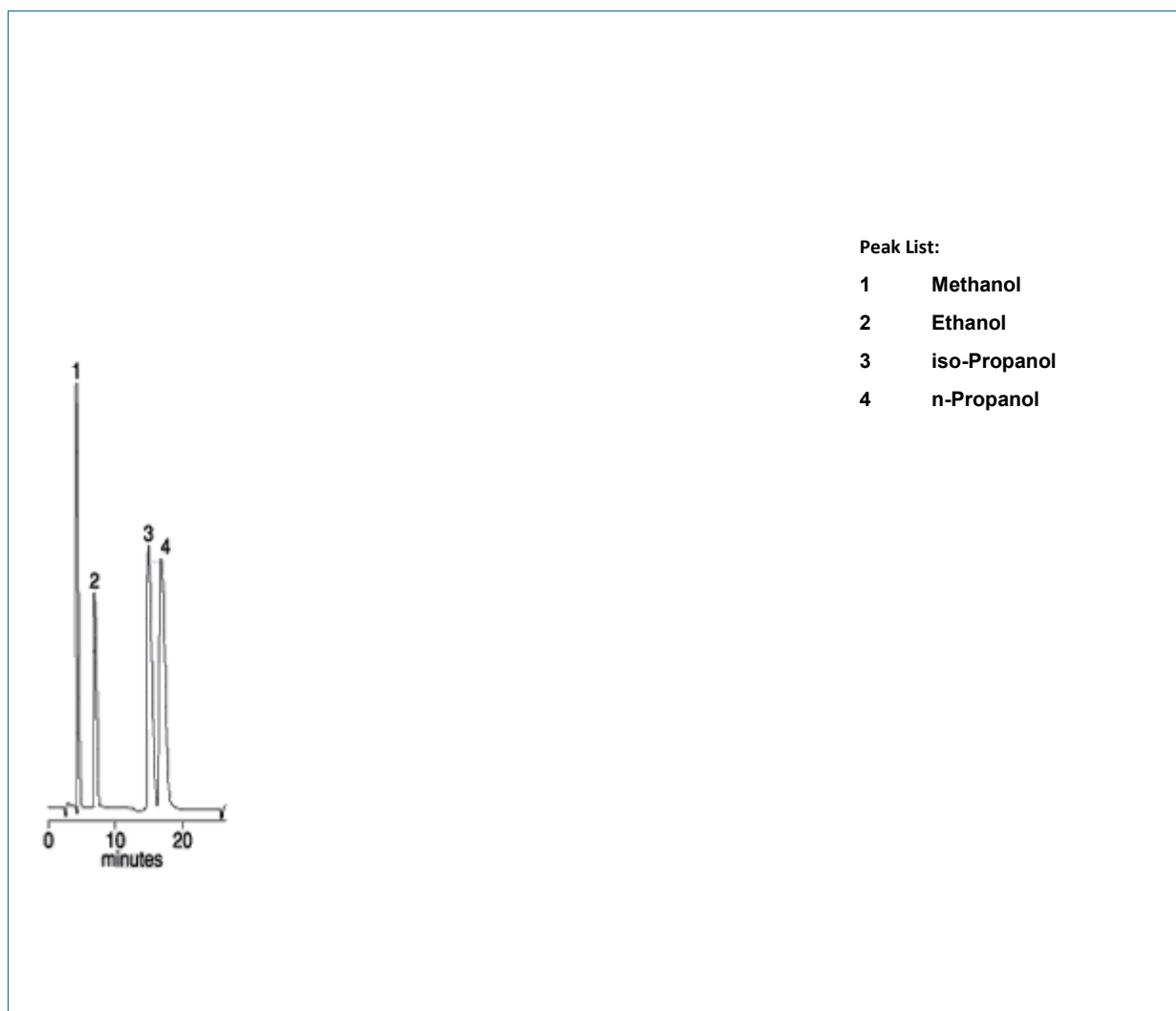
Size: 150 mm x 4.6 mm ID

Eluent: H₂O

Flow rate: 1.0 mL/min

Detector: RID

Temperature Column: 40°C



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Amino acids

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016171

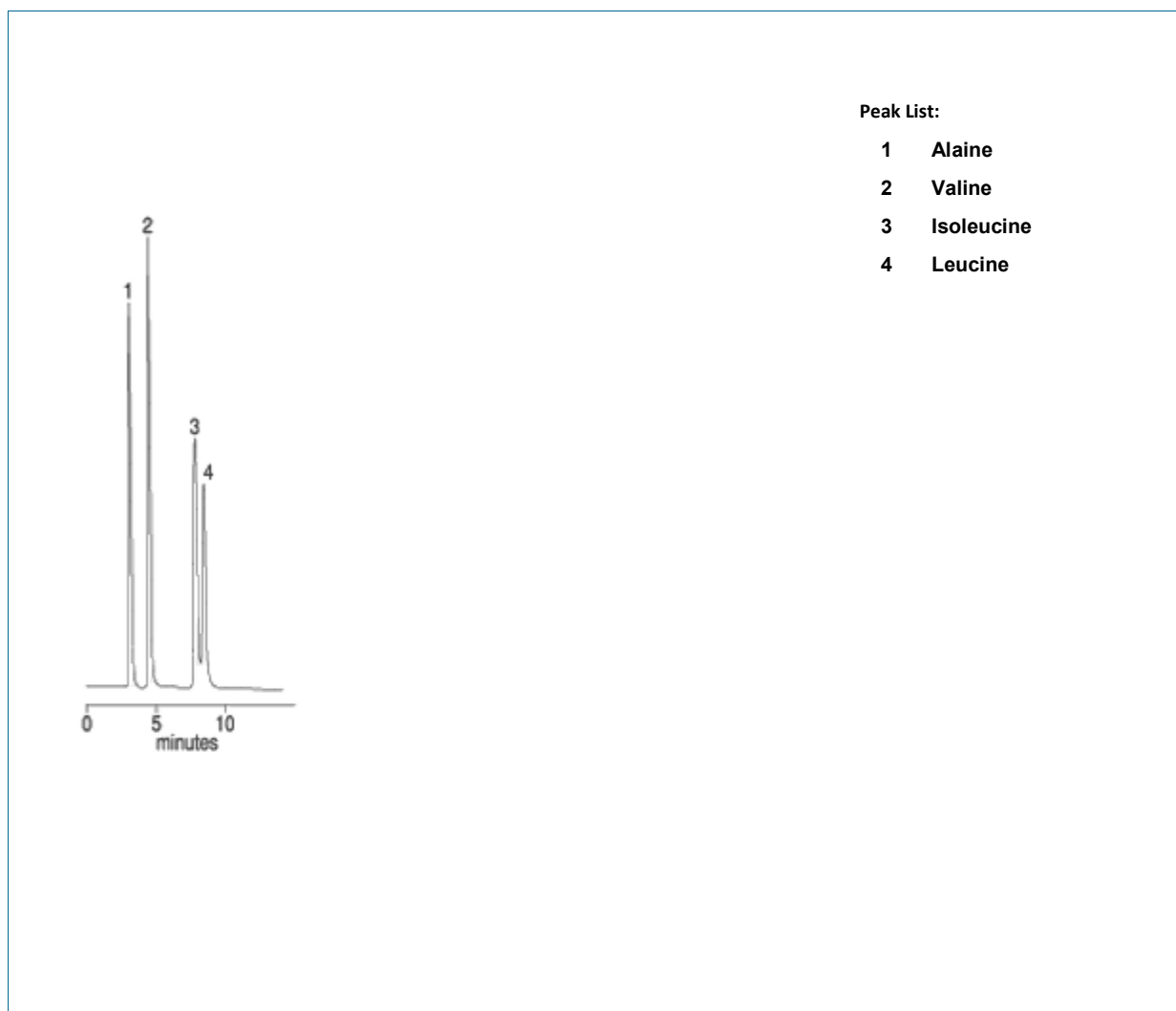
Size: 150 mm x 7.8 mm ID

Eluent: H₂O

Flow rate: 1.0 mL/min

Detector: RID

Temperature Column: 40°C



TKL 6003

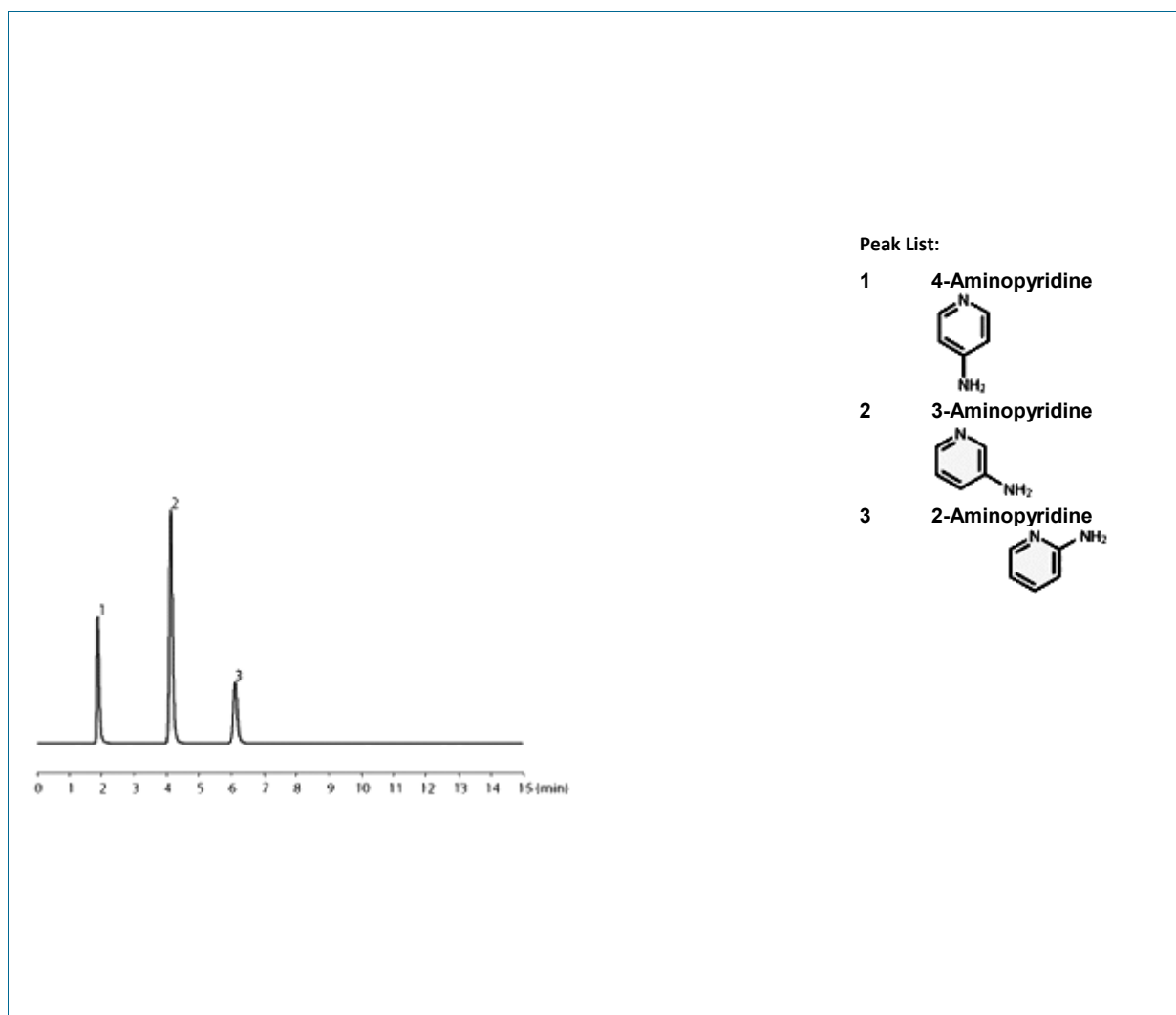
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Aminopyridines

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004
Size: 150 mm x 4.6 mm ID
Mobile phase: CH_2OH / 20 mM KH_2PO_4 - K_2HPO_4 (pH = 7.0)
= 15 / 85
Flow rate: 1.0 mL/min
Temperature Column: 40°C
Detector: UV 254 nm



TKL 6004

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Angiotensin

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

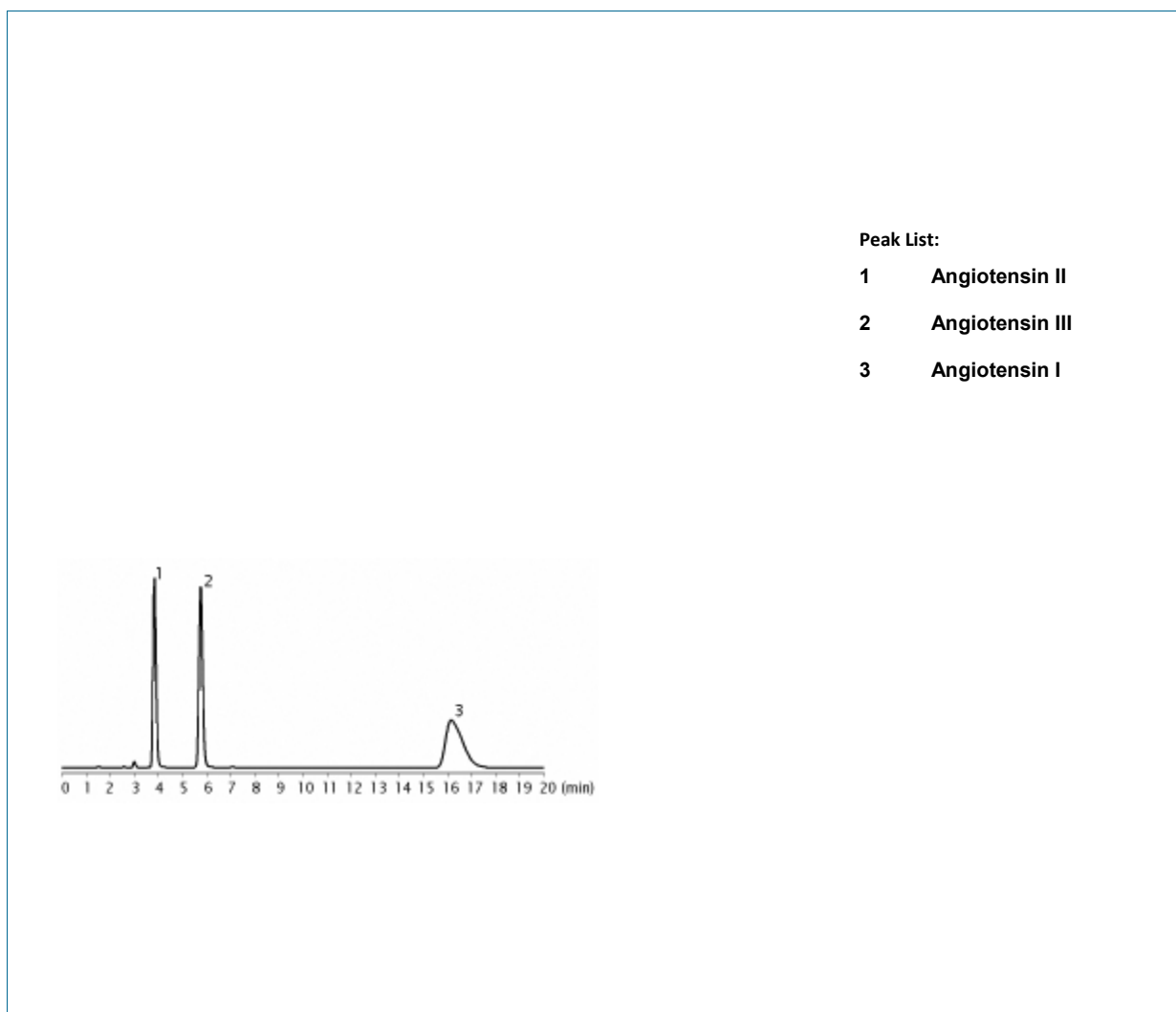
Size: 150 mm x 4.6 mm ID

Mobile phase: 10 mM Potassium Phosphate (pH7.0) / CH₃CN = 80 / 20

Flow rate: 1.0 mL/min

Temperature Column: 35°C

Detector: UV 220 nm



TKL 6005

Angiotensin

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

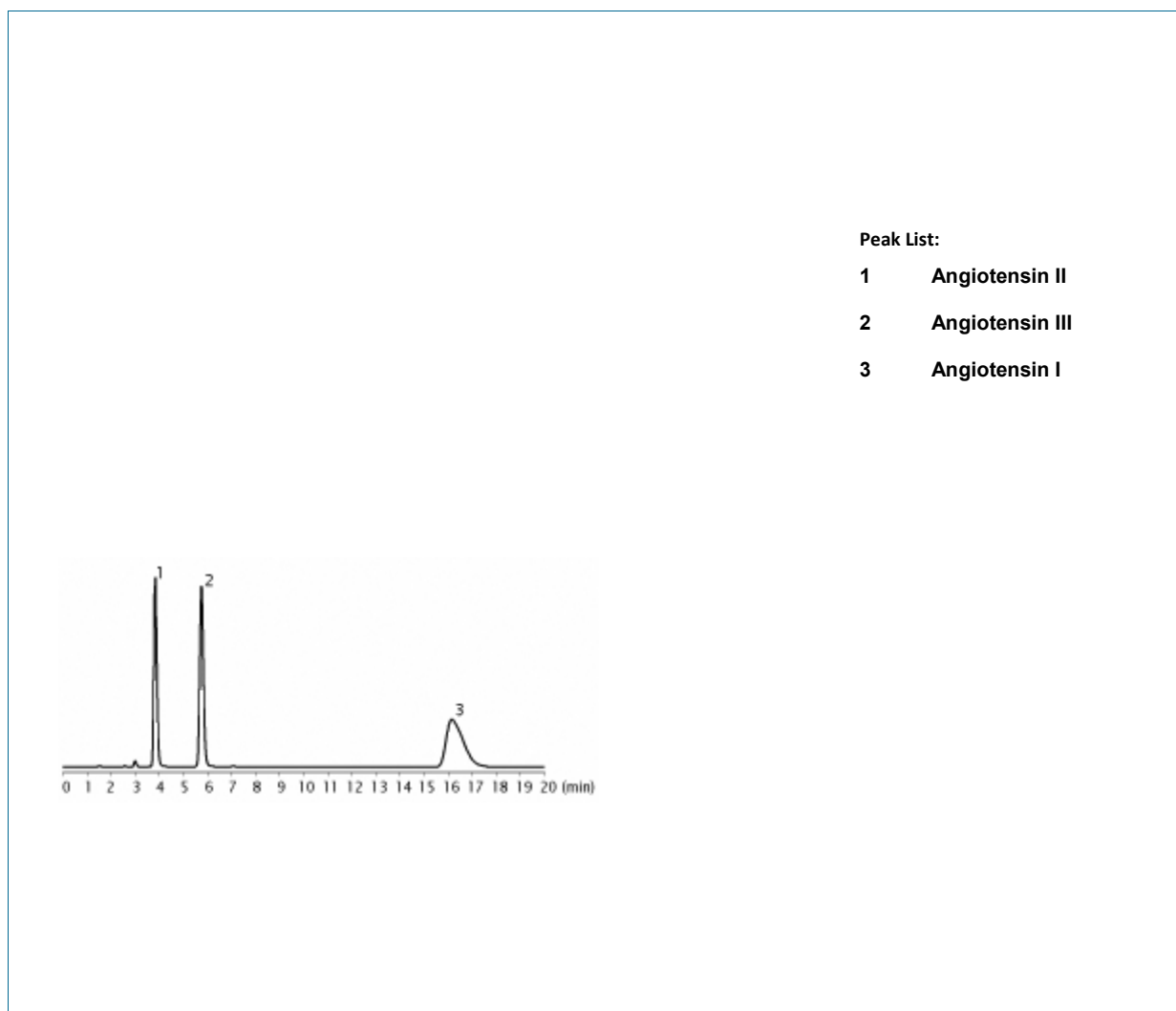
Size: 150 mm x 4.6 mm ID

Mobile phase: 10 mM Potassium Phosphate (pH7.0) / CH₃CN = 80 / 20

Flow rate: 1.0 mL/min

Temperature Column: 35°C

Detector: UV 220 nm



TKL 6005

Angiotensin

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

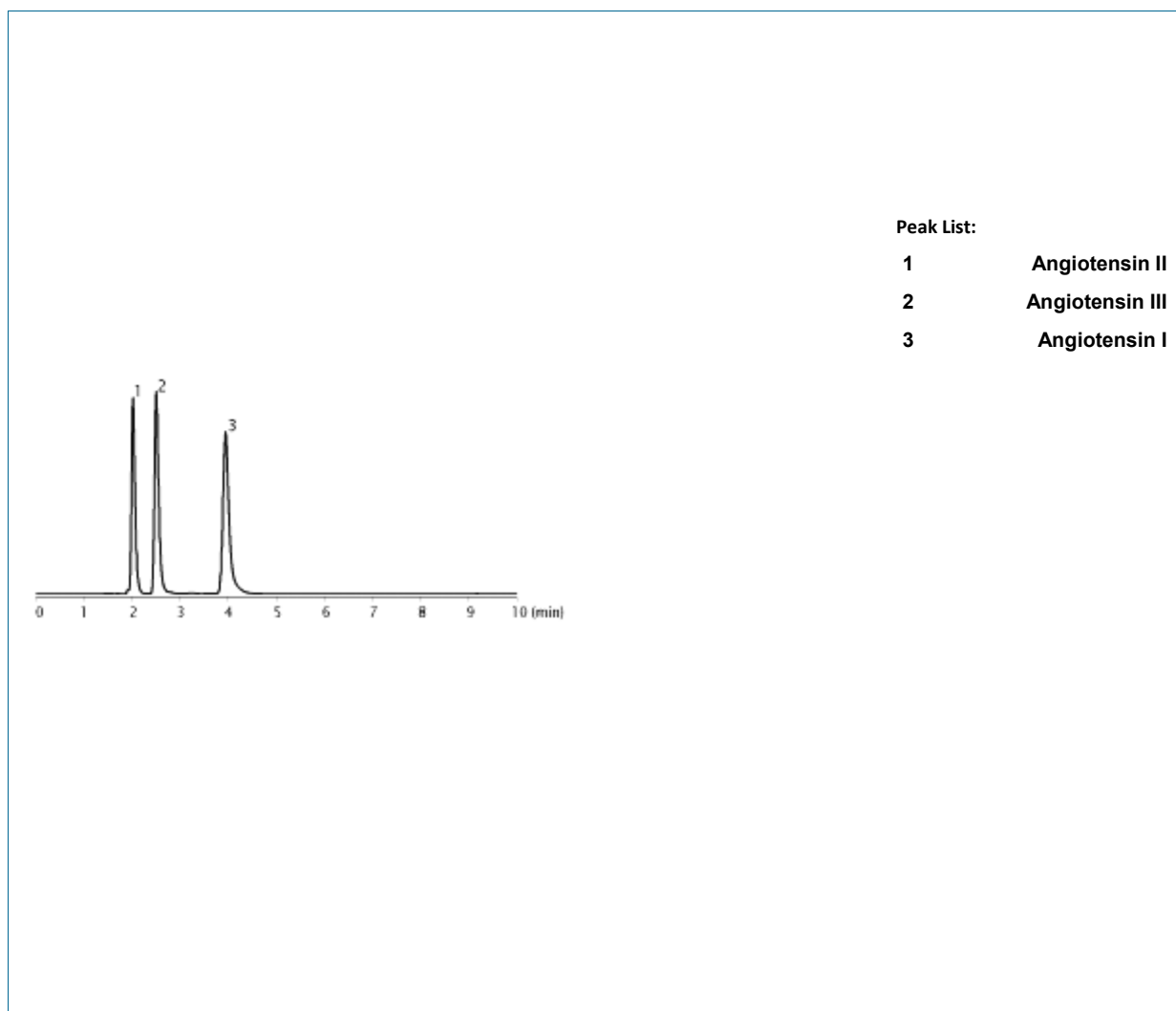
Size: 150 mm x 4.6 mm ID

Mobile phase: 10 mM Potassium Phosphate (pH 7.0) CH₃CN = 75 / 25

Flow rate: 1.0 mL/min

Temperature Column: 35°C

Detector: UV 220 nm



TKL 6006

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Anti-HIV agents

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

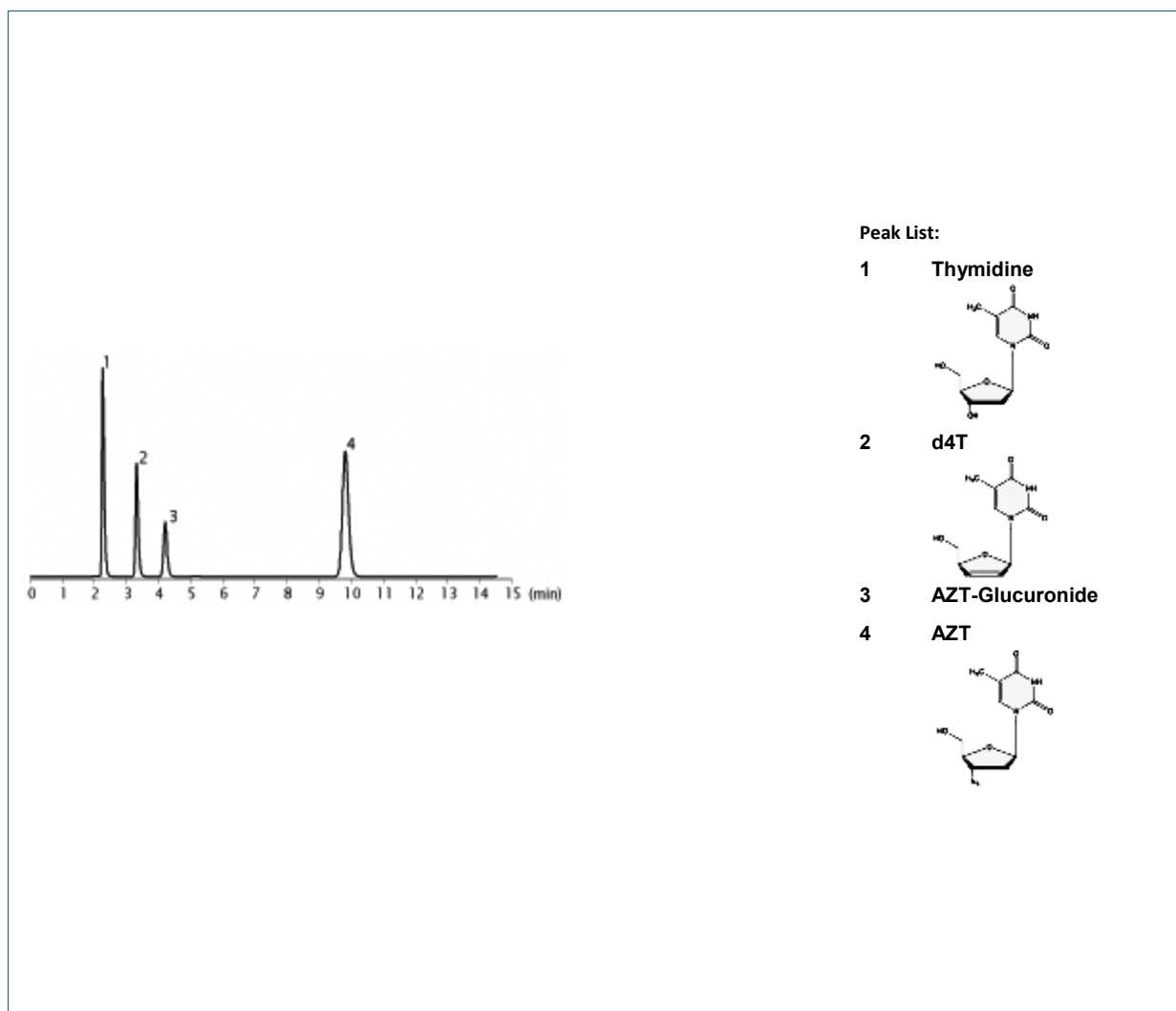
Size: 150 mm x 4.6 mm ID

Mobile phase: 20 mM NH₄H₂PO₄ / CH₃OH = 90 / 10

Flow rate: 1.0 mL/min

Temperature Column: 35°C

Detector: UV 260 nm



TKL 6007

Anti-HIV agents

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

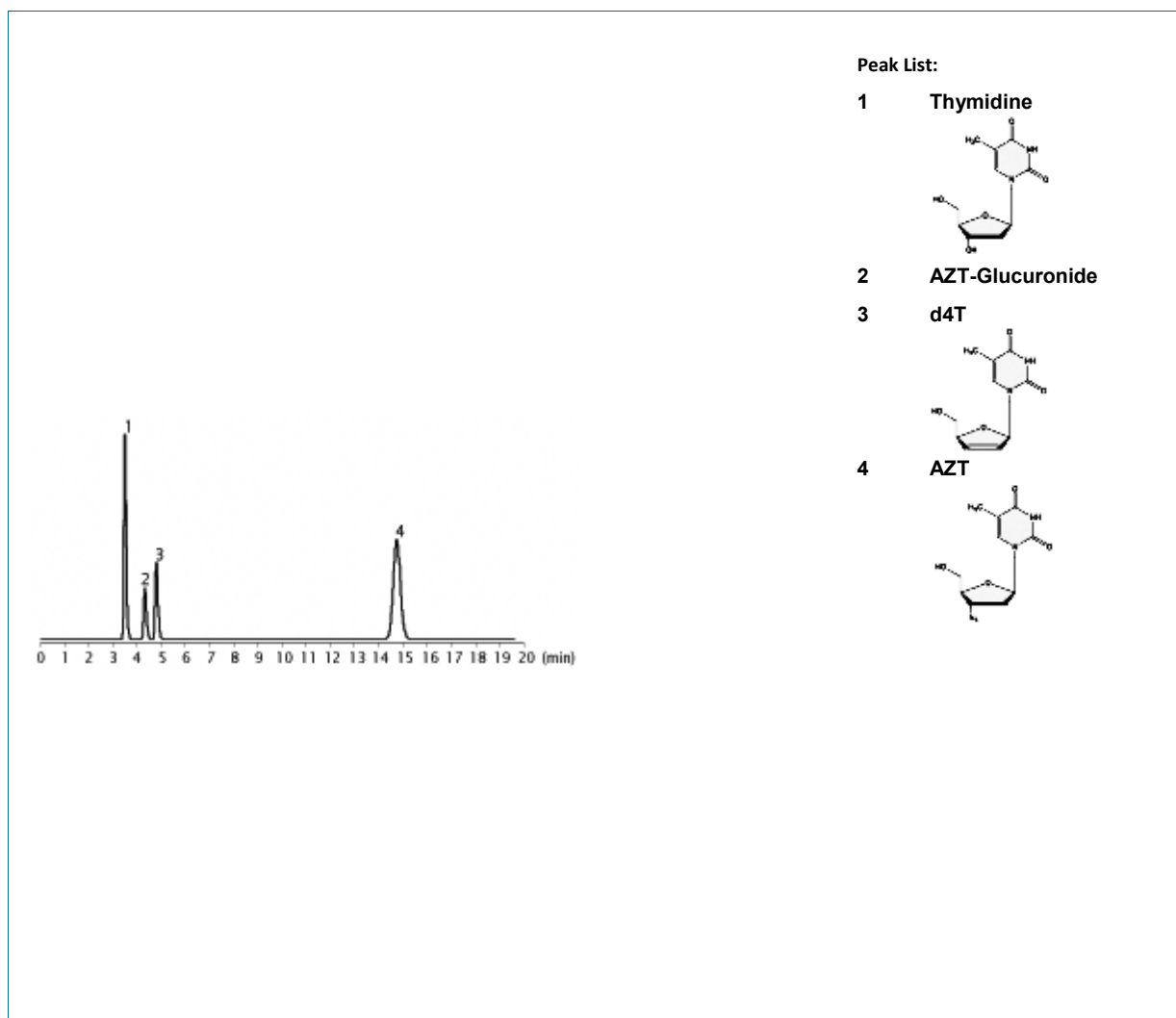
Size: 150 mm x 4.6 mm ID

Mobile phase: 20 mM $\text{NH}_4\text{H}_2\text{PO}_4$ / CH_3OH = 80 / 20

Flow rate: 1.0 mL/min

Temperature Column: 35°C

Detector: UV 260 nm



TKL 6008

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Anti-HIV agents

Column: **TRACER EXCEL ODS-B** 5 µm, P/N TR-016343

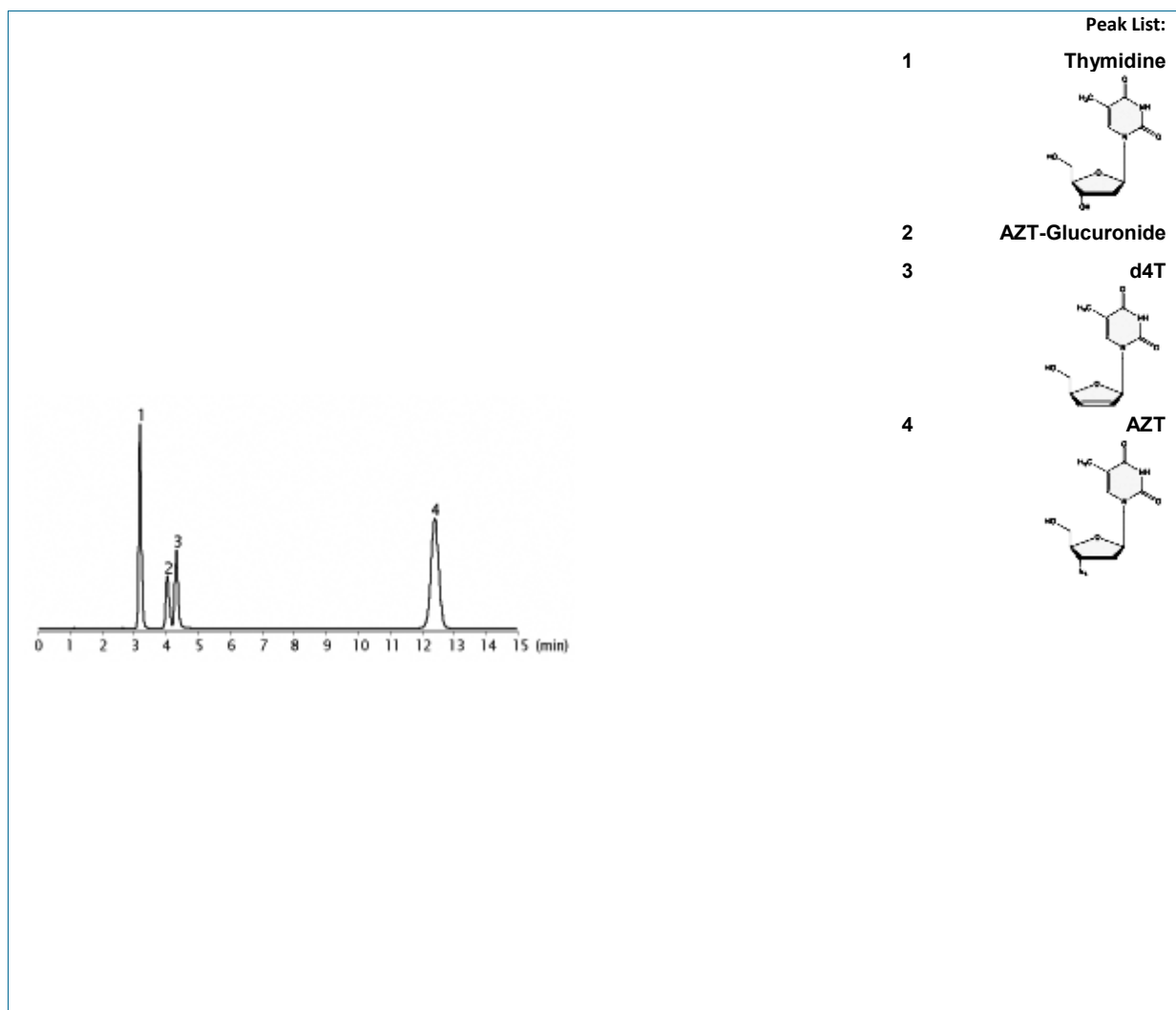
Size: 150 mm x 4.6 mm ID

Mobile phase: 20 mM NH₄H₂PO₄ / CH₃OH = 80 / 20

Flow rate: 1.0 mL/min

Temperature Column: 35°C

Detector: UV 260 nm



TKL 6009

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Anticancers

Column: **MEDITERRANEA SEA 18** 5 µm, P/N TR-010004

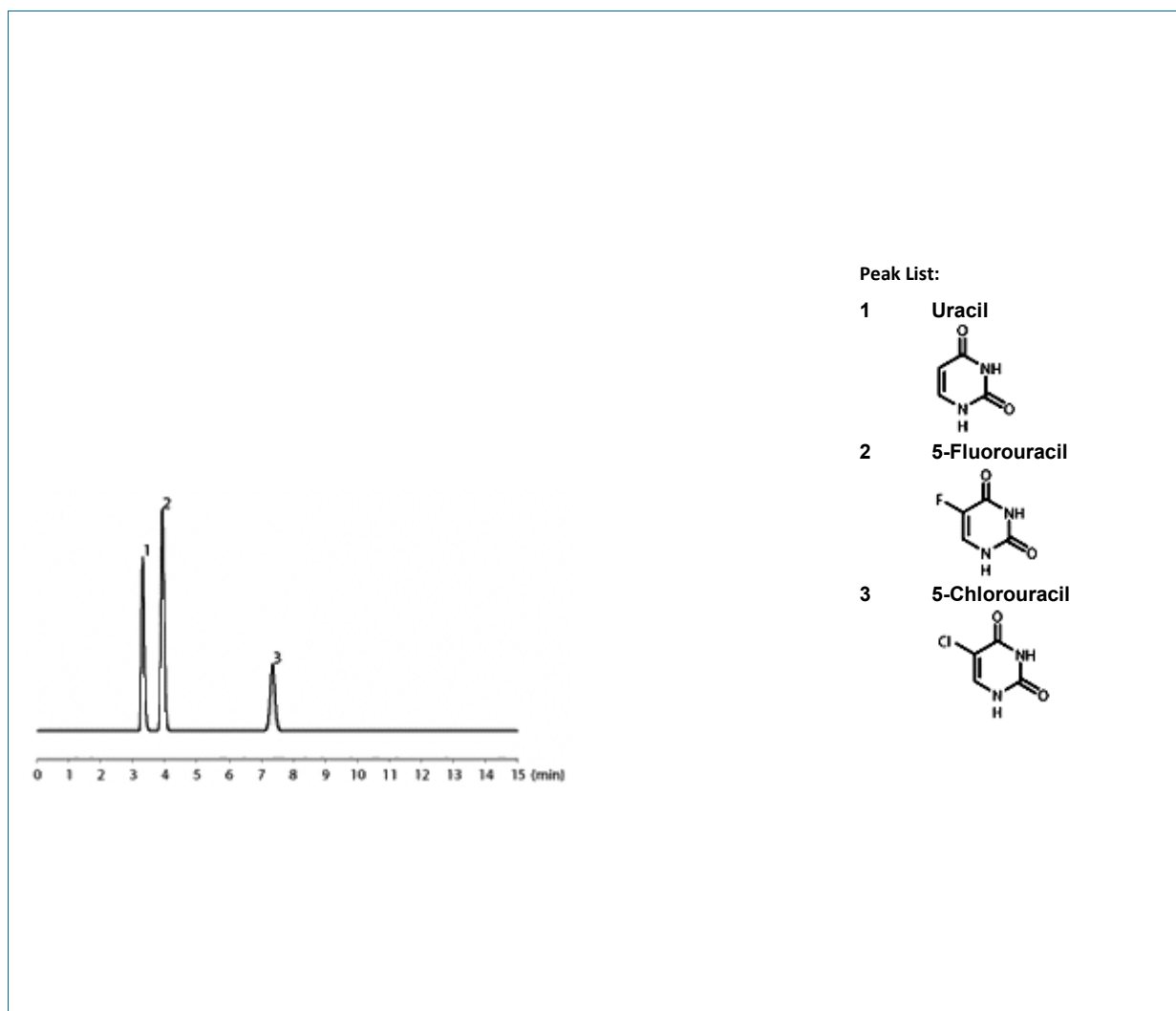
Size: 150 mm x 4.6 mm ID

Mobile phase: 20 mM KH₂PO₄ + 5 mM Sodium 1-Decanesulfonate 100%

Flow rate: 1.0 mL/min

Temperature Column: 40°C

Detector: UV 254 nm



TKL 6010

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Anticholinergic drugs

Column: **MEDITERRANEA SEA 18** 5 μ m, P/N TR-010004

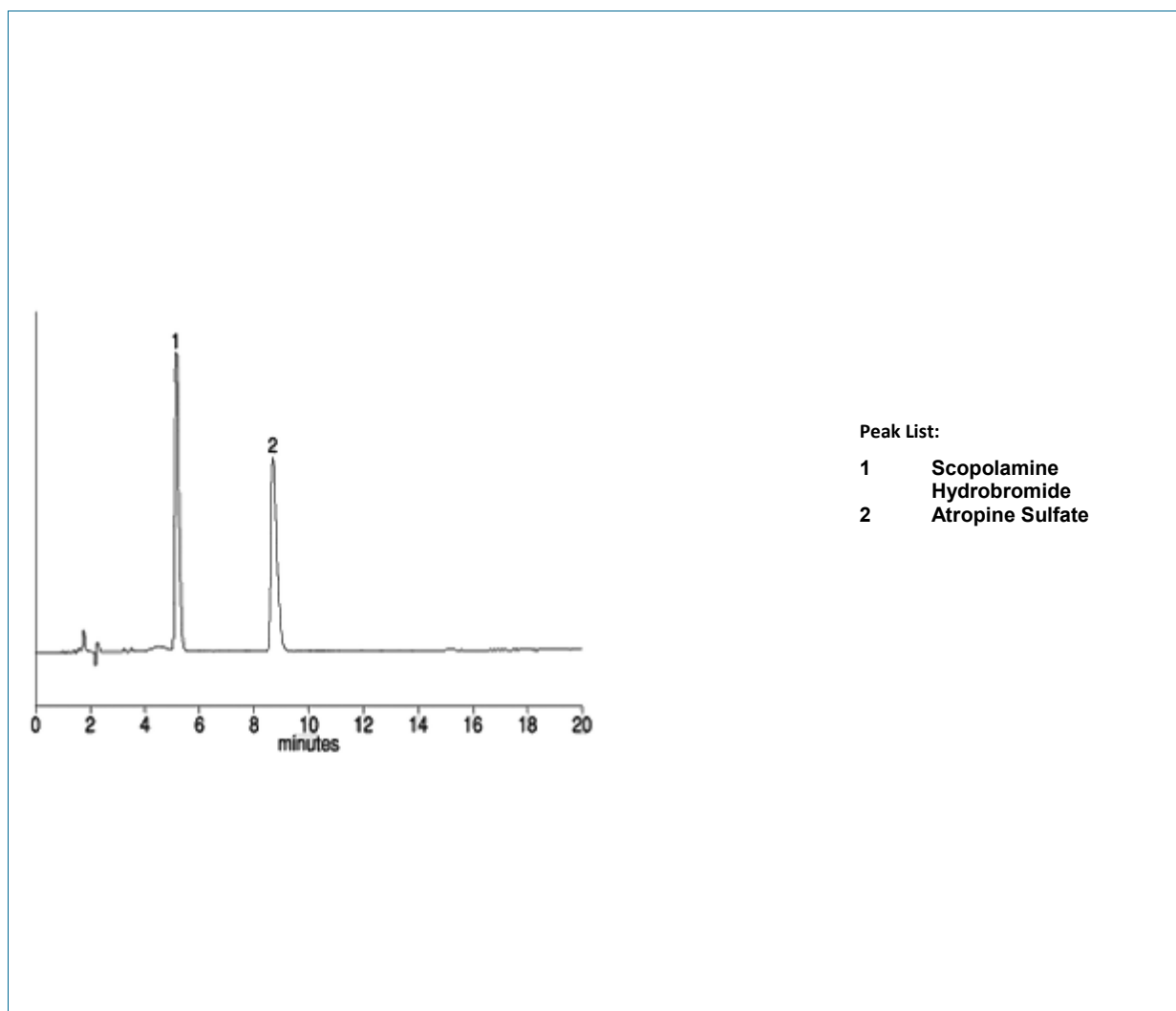
Size: 150 mm x 4.6 mm ID

Mobile phase: CH₃ON/30mM NaH₂PO₄ = 15 / 85

Flow rate: 1.0 mL/min

Temperature Column: 40°C

Detector: UV 254 nm



TKL 6011

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Antiepileptics

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

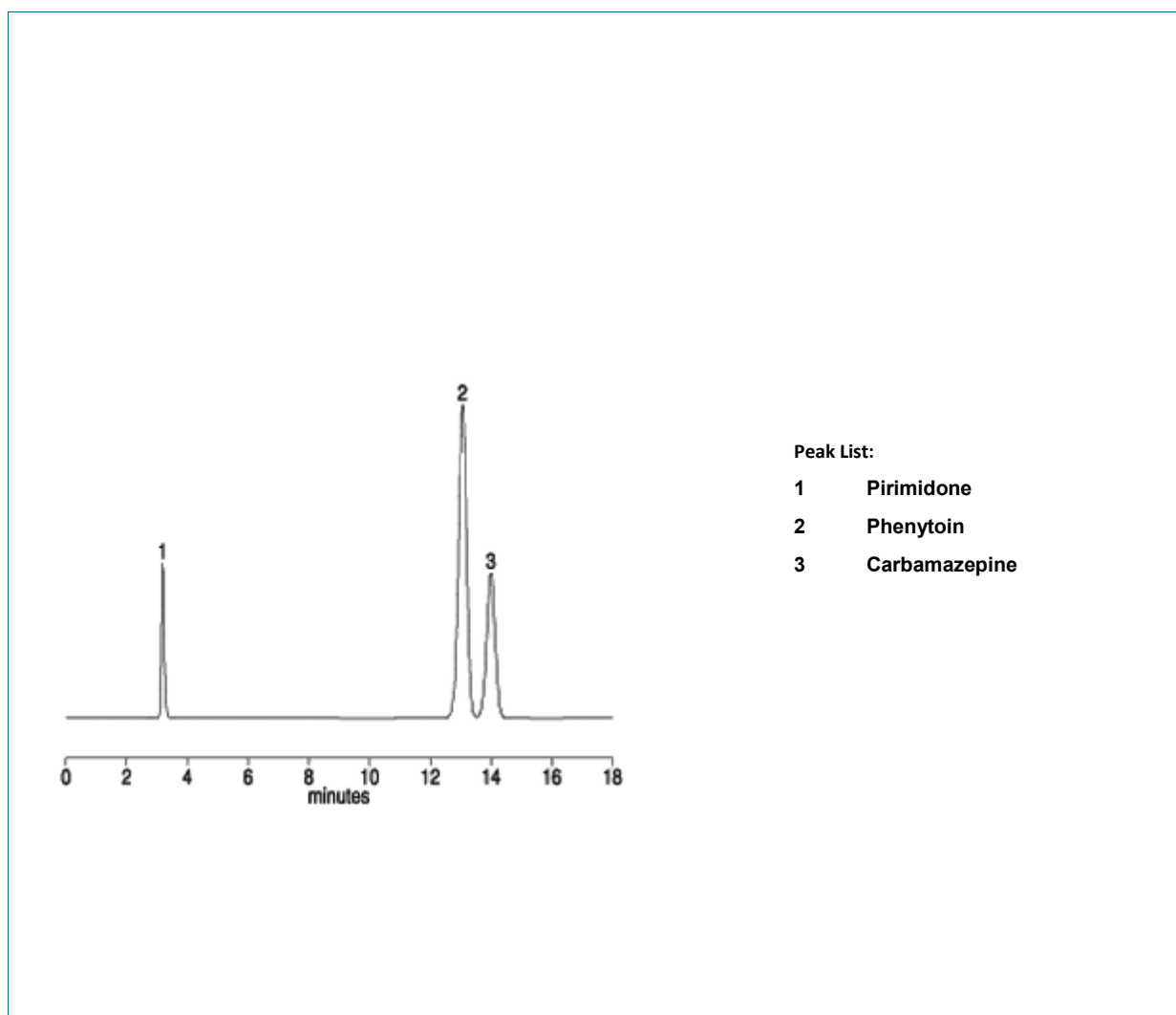
Size: 150 mm x 4.6 mm ID

Mobile phase: $\text{CH}_3\text{CN}/20\text{mM KH}_2\text{PO}_4 - \text{K}_2\text{HPO}_4$
(pH 7.0) = 70 / 30

Flow rate: 1.0 mL/min

Temperature Column: 30°C

Detector: UV 220 nm



TKL 6012

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Antioxidants

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016171

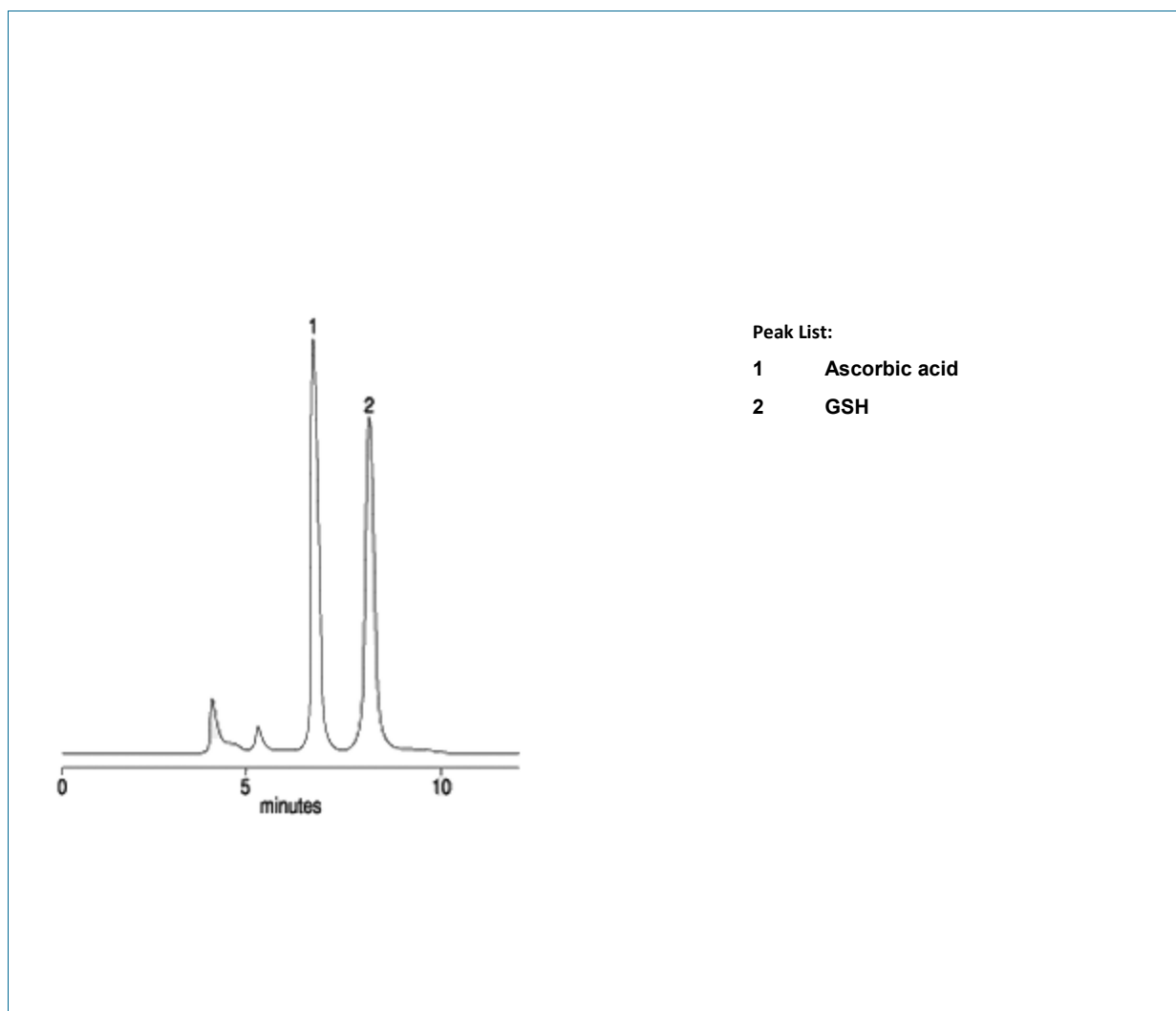
Size: 150 mm x 7.8 mm ID

Eluent: 0.1 M Phosphate buffer (pH 3.1)

Flow rate: 1.0 mL/min

Detector: ECD

Temperature Column: Ambient



TKL 6013

Ascorbic acid glycosides

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016171

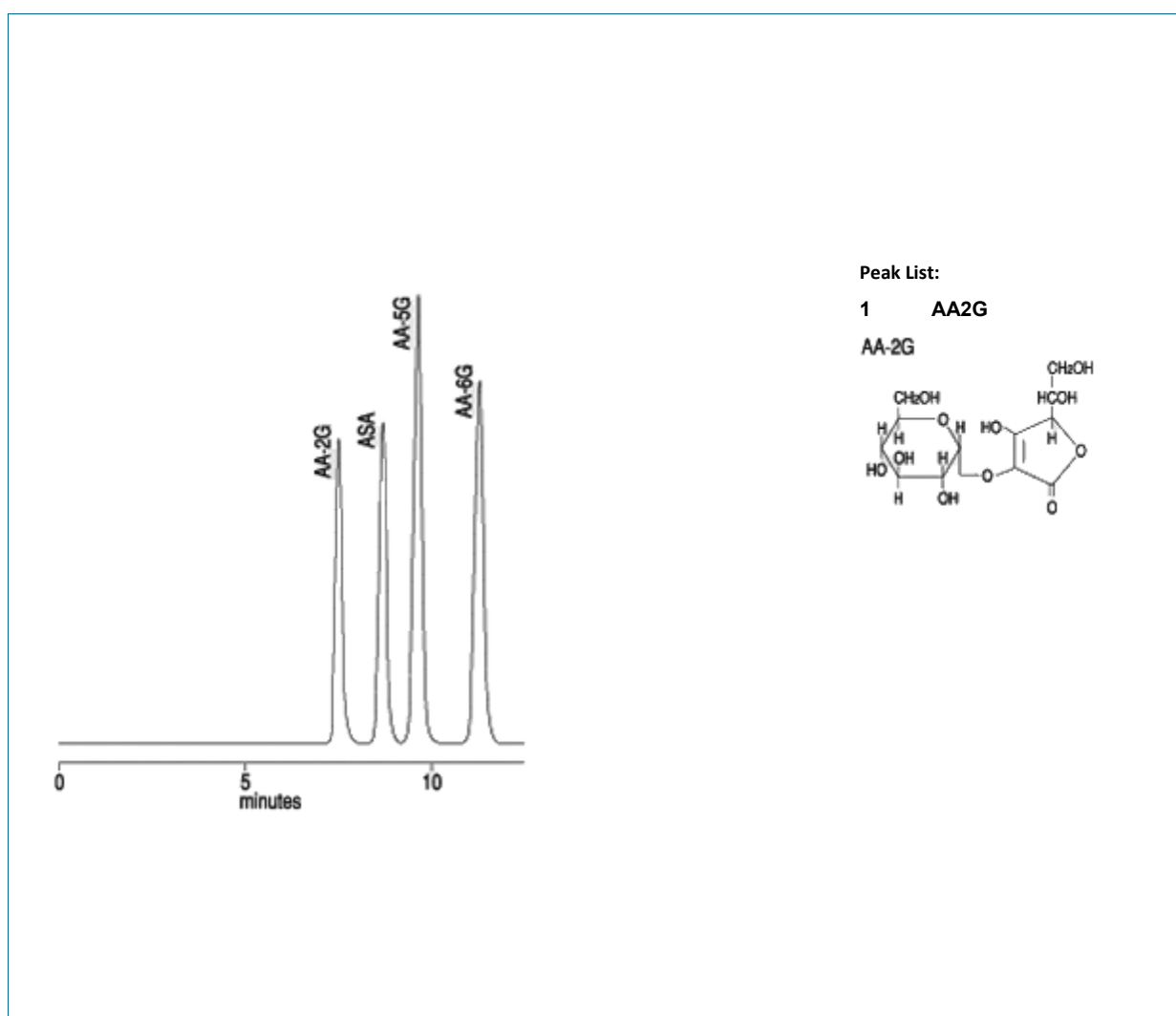
Size: 150 mm x 7.8 mm ID

Eluent: $\text{KH}_2\text{PO}_4 - \text{H}_3\text{PO}_4$ buffer (pH 3.8)

Flow rate: 0.7 mL/min

Detector: Ambient

Temperature Column: 40° C



TKL 6014

β-Blocker

Column: **MEDITERRANEA SEA 18** 5 μm, P/N TR-010004

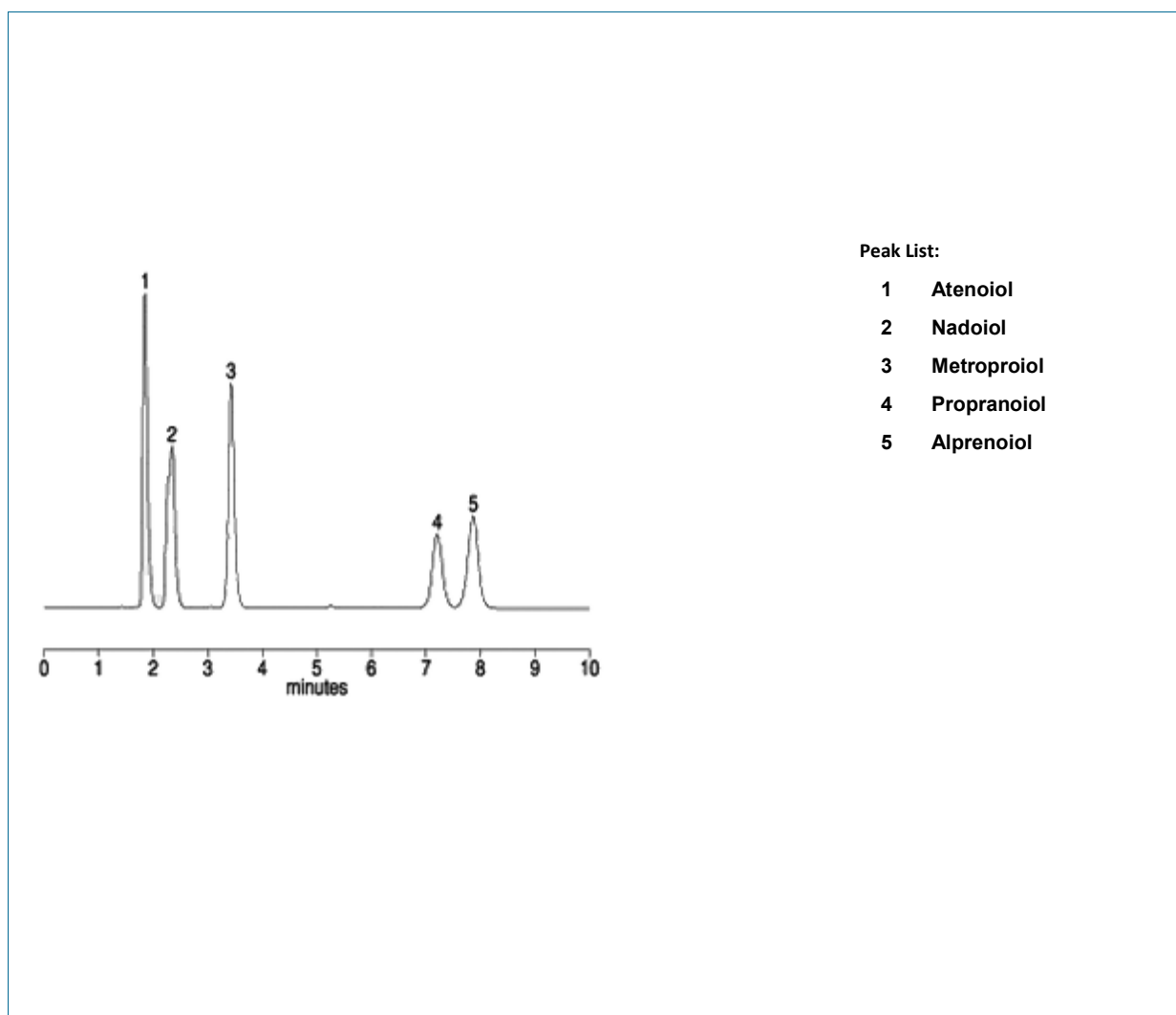
Size: 150 mm x 4.6 mm ID

Eluent: CH₂OH/20 mM KH₂PO₄ - K₂HPO₄
(pH 7,0) = 60 / 40

Flow rate: 1.0 mL/min

Detector: UV 220 nm

Temperature Column: 40°C



TKL 6015

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Catecholamines

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

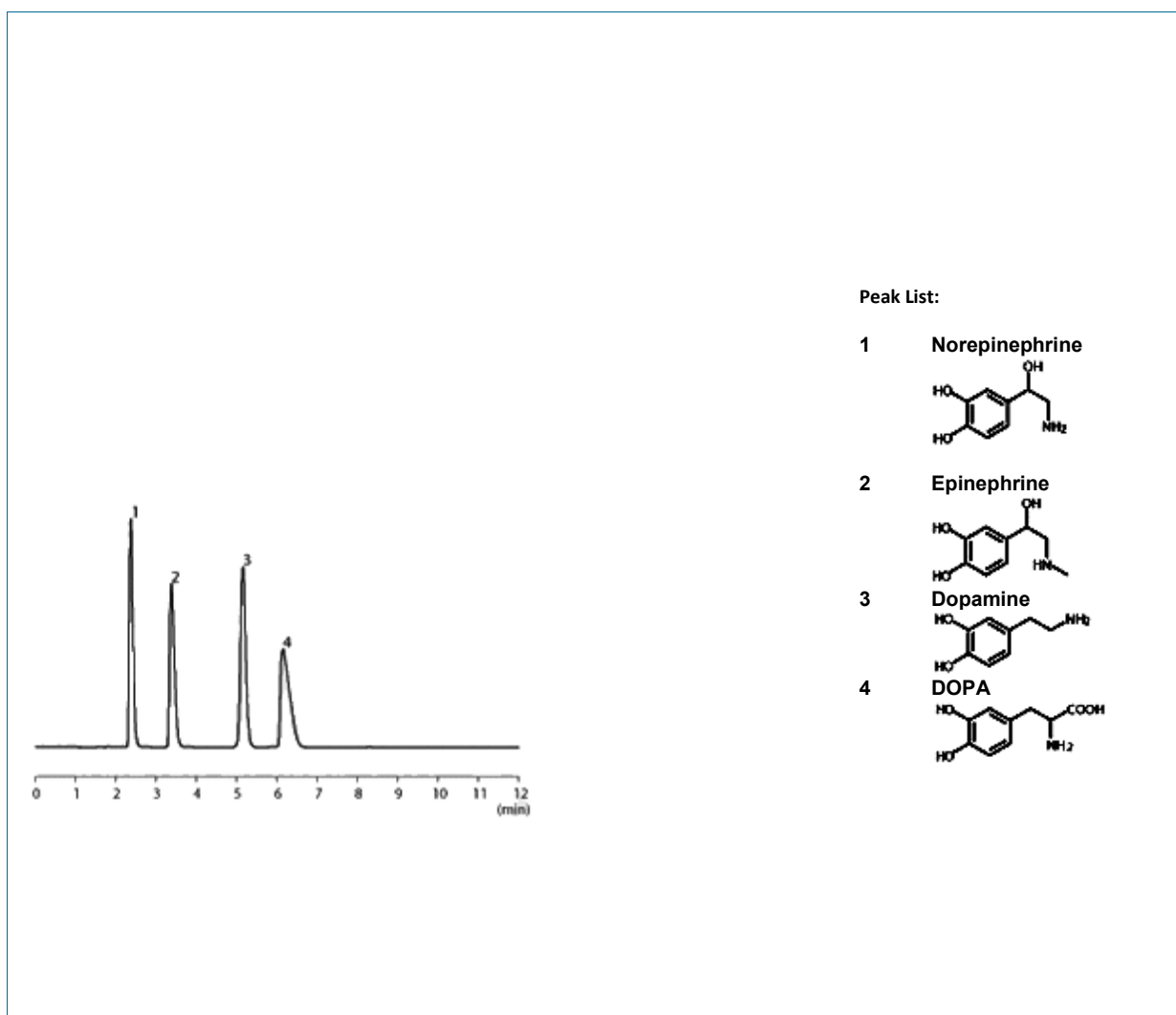
Size: 150 mm x 4.6 mm ID

Eluent: CH_3OH / 20 mM NaH_2PO_4 = 1 / 99
(H 2,5 with H_3PO_4)

Flow rate: 1.0 mL/min

Detector: UV 280 nm

Temperature Column: 30°C



TKL 6016

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Cinchona alkaloids

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

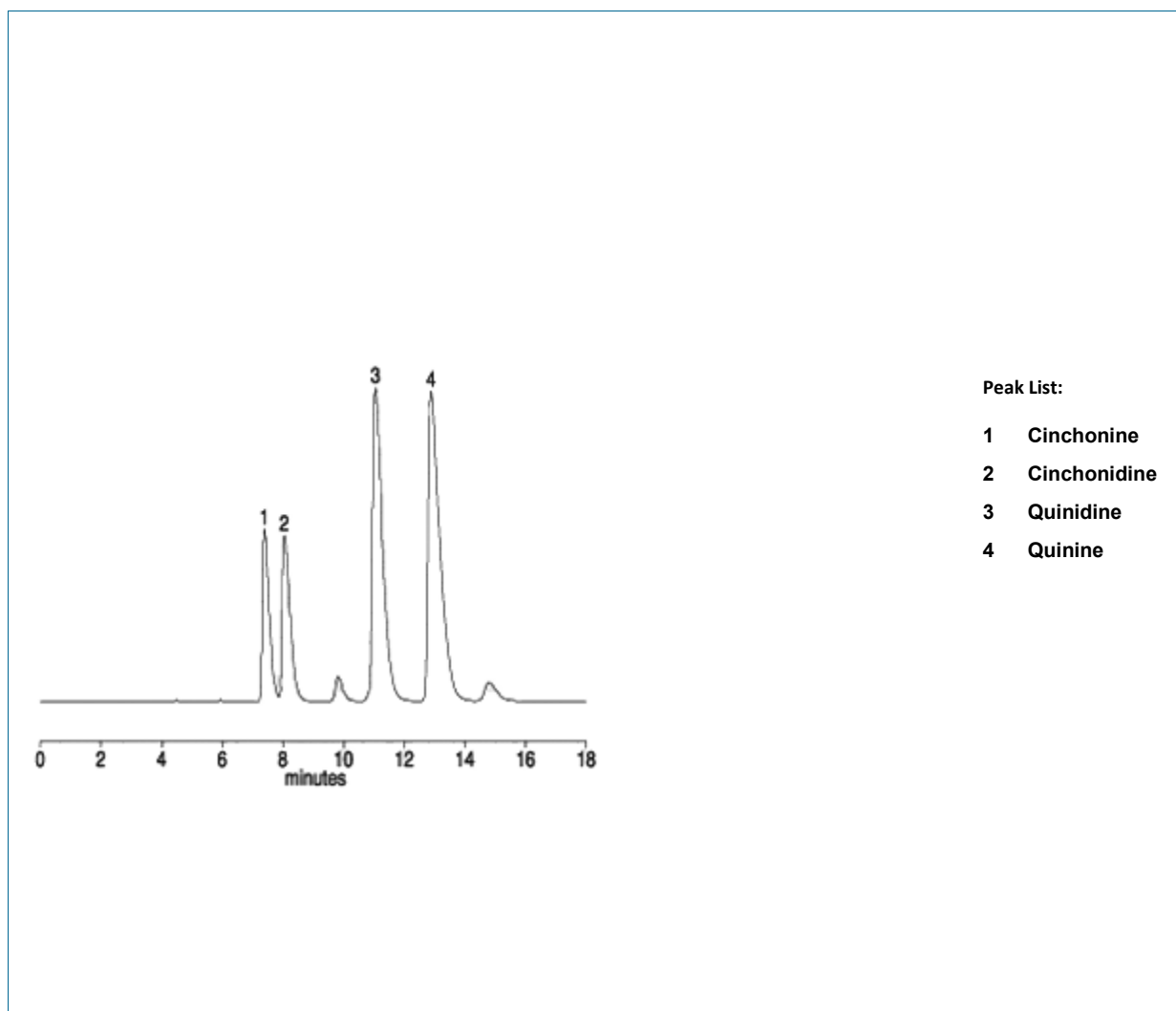
Size: 150 mm x 4.6 mm ID

Eluent: CH_3OH / 20 mM KH_2PO_4 = 35 / 65

Flow rate: 1.0 mL/min

Detector: UV 235 nm

Temperature Column: 40°C



TKL 6017

Cyclodextrin derivatives

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016171

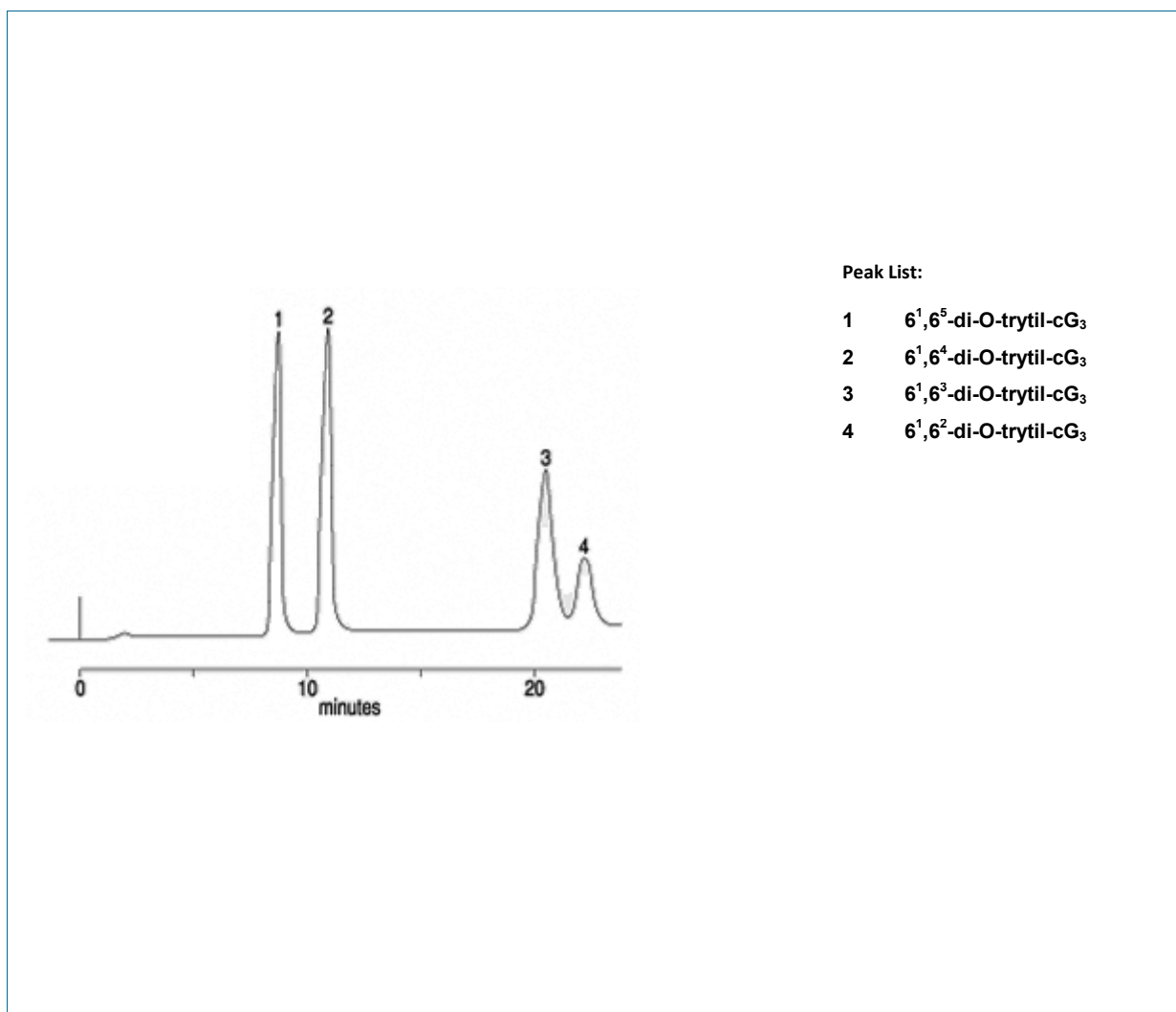
Size: 150 mm x 7.8 mm ID

Eluent: MeOH / H₂O = 70 / 30

Flow rate: 1.0 mL/min

Detector: UV 240 nm

Temperature Column: Ambient



TKL 6018

2,2'-Dipyridyl

Column: **TRACER EXCEL ODS-A** 5 µm, P/N TR-016338

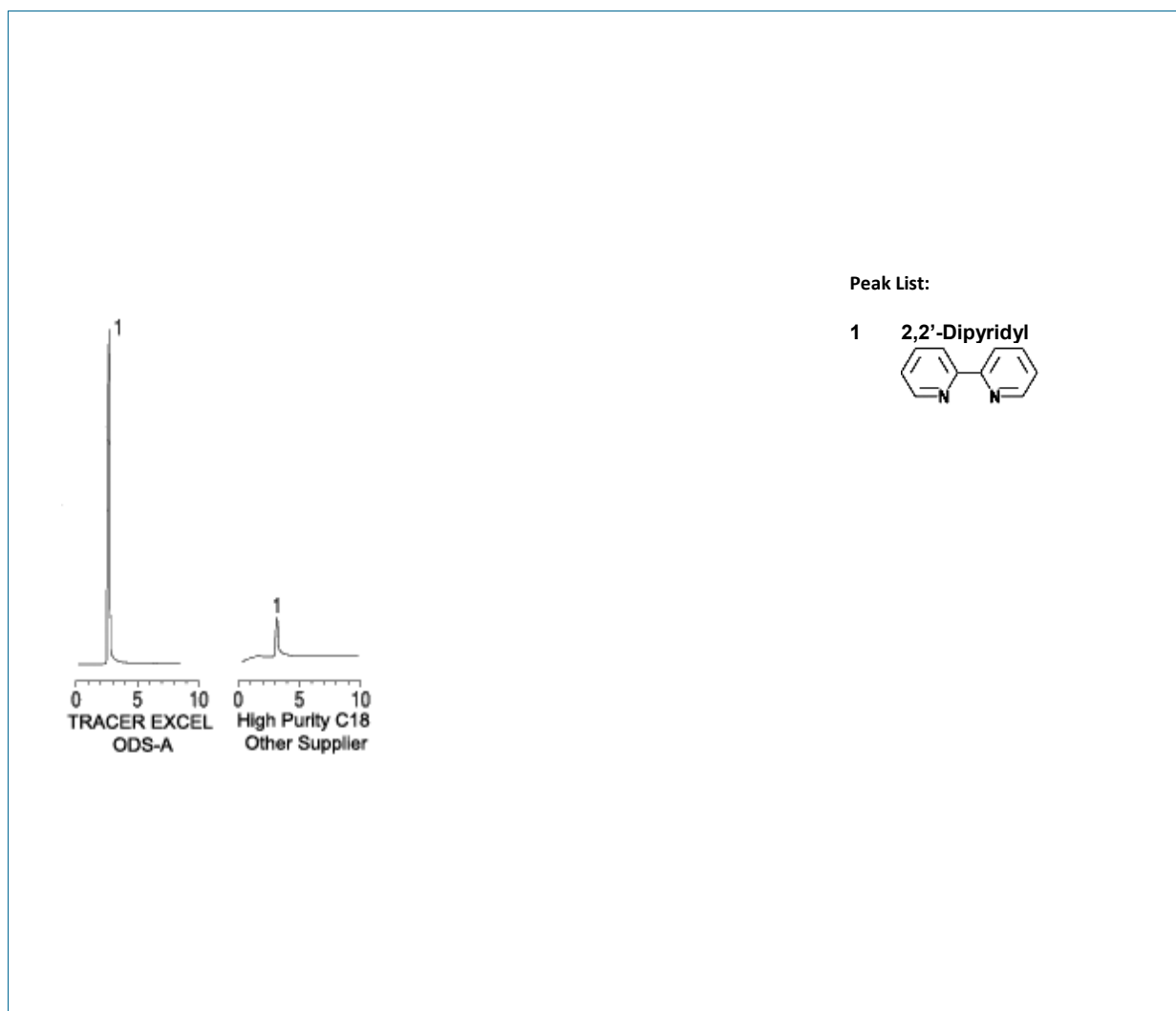
Size: 150 mm x 4.6 mm ID

Eluent: CH₂OH / H₂O = 70 / 30

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 40°C



TKL 6019

Diuretics

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

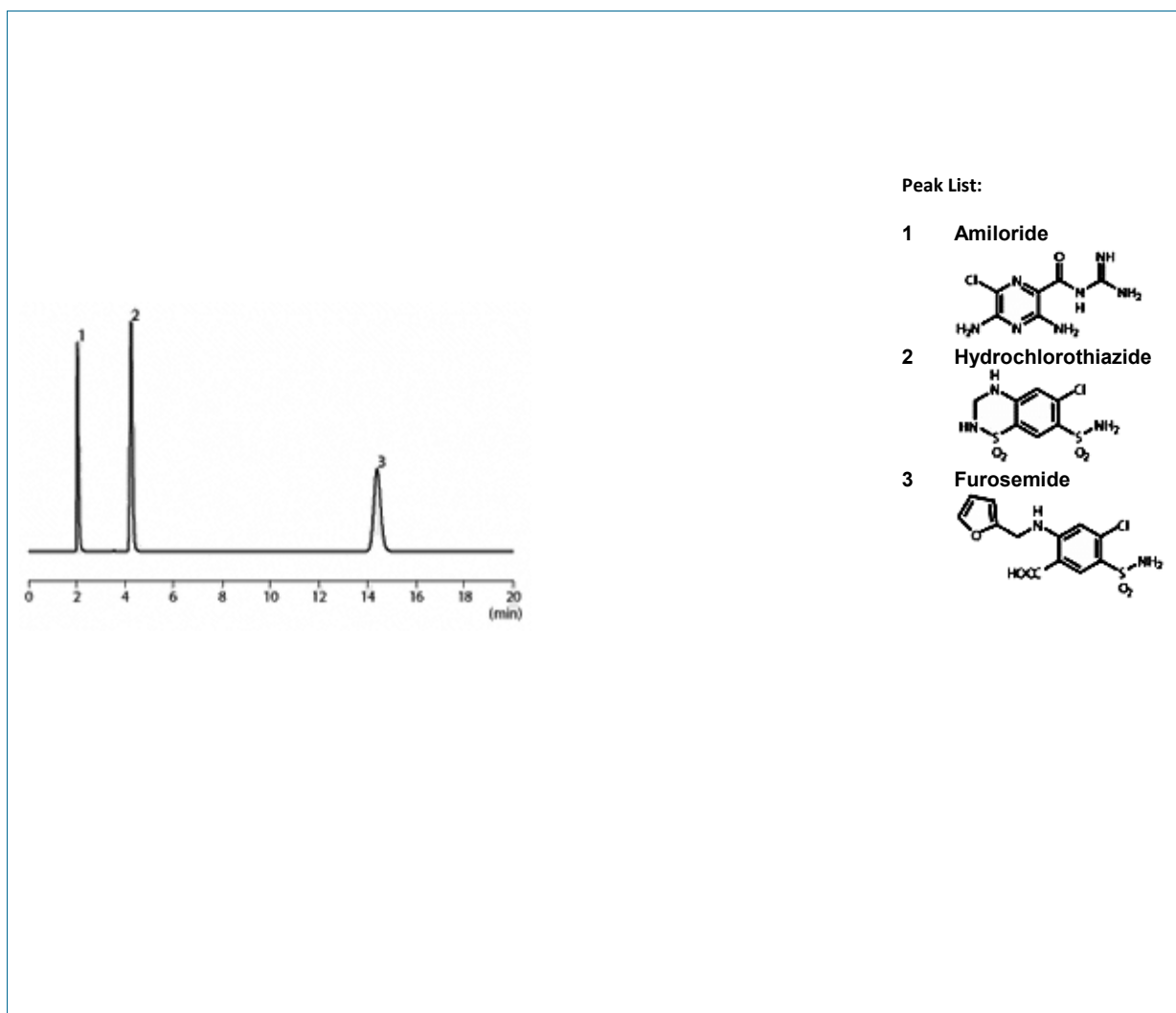
Size: 150 mm x 4.6 mm ID

Eluent: CH_3CN / 20 mM KH_2PO_4 = 20 / 80

Flow rate: 1.0 mL/min

Detector: UV 270 nm

Temperature Column: 40°C



TKL 6020

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Erythropoietin(EPO)

Column: **EUROPA C4 PROTEIN** 5 µm, P/N TR-010085

Size: 150 mm x 4.6 mm ID

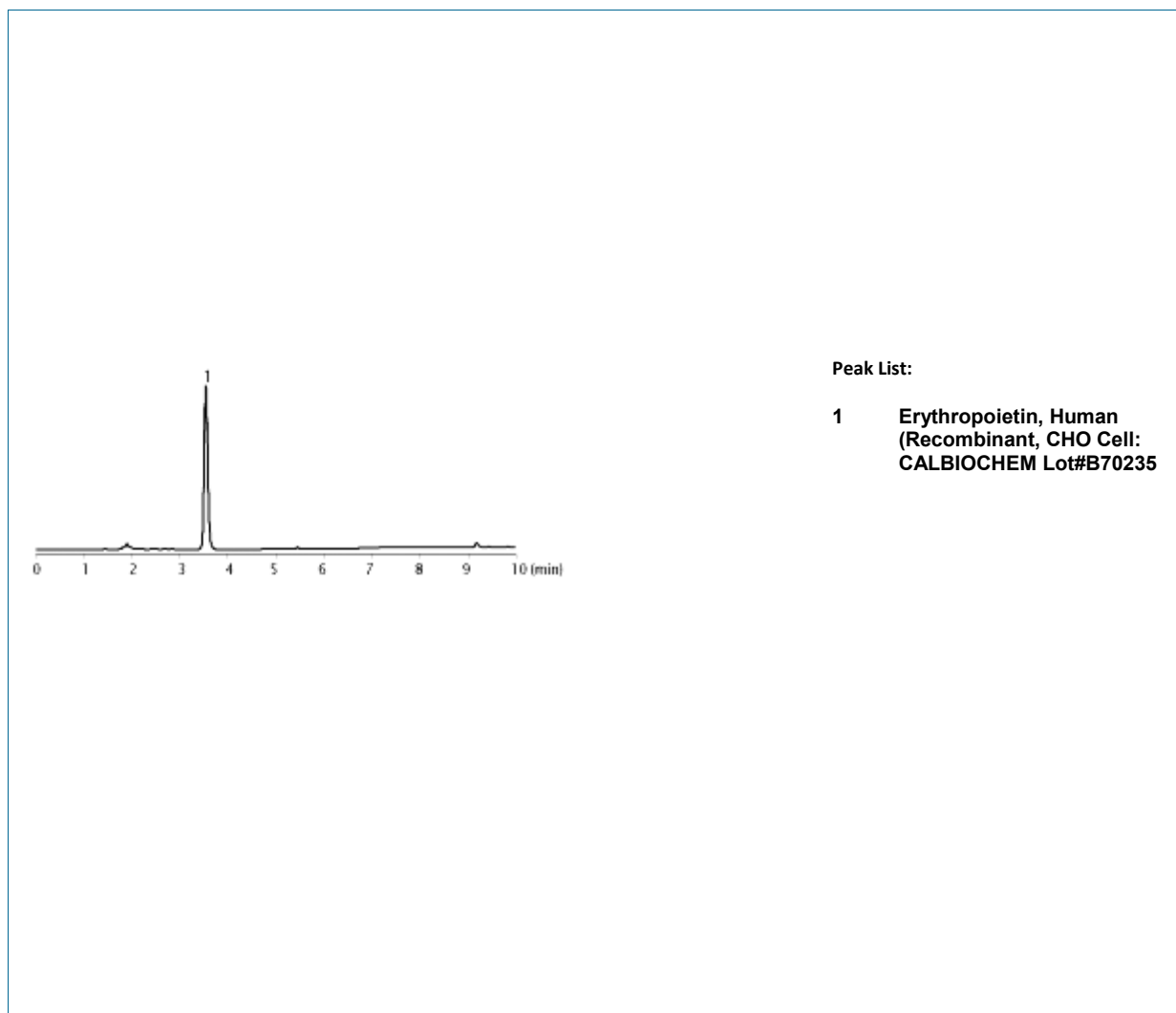
Eluent: A) CH₃CN B) 10 mM Tris-HCl (pH 7.0)

A / B = 10 / 90 → A / B = 90 / 10 (0-10 min)

Flow rate: 1.0 mL/min

Detector: UV 220 nm

Temperature Column: 35°C



TKL 6021

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Erythropoietin(EPO)

Column: **EUROPA C4 PROTEIN** 5 µm, P/N TR-010085

Size: 150 mm x 4.6 mm ID

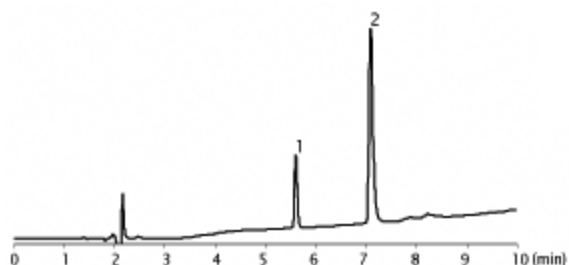
Eluent: A) CH₃CN / TFA = 1000 / 1 B) H₂O / TFA = 1000 / 1

A / B = 10 / 90 → A / B = 90 / 10 (0-10 min)

Flow rate: 1.0 mL/min

Detector: UV 220 nm

Temperature Column: 35°C



Peak List:

- 1 Erythropoietin, Human
(Recombinant, CHO Cell)**
- 2 HSA
(CALBIOCHEM Lot#B70235)**

TKL 6022

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Eye drops

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

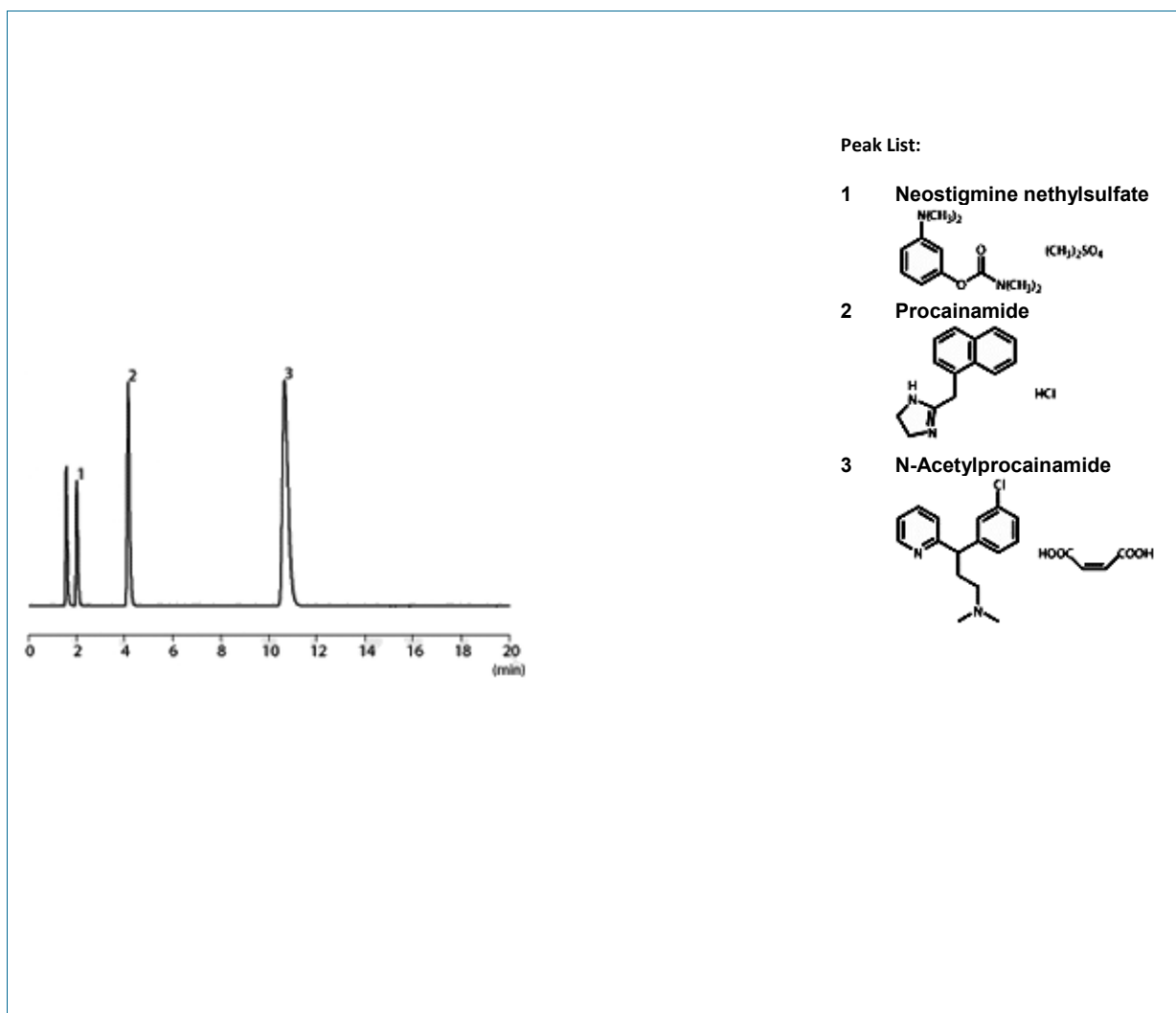
Size: 150 mm x 4.6 mm ID

Eluent: A) CH_3CN / 20 mM KH_2PO_4 = 25 / 75

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 40°C



TKL 6023

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Fat-soluble vitamins

Column: **TRACER EXCEL Si** 5 μ m, P/N TR-016358

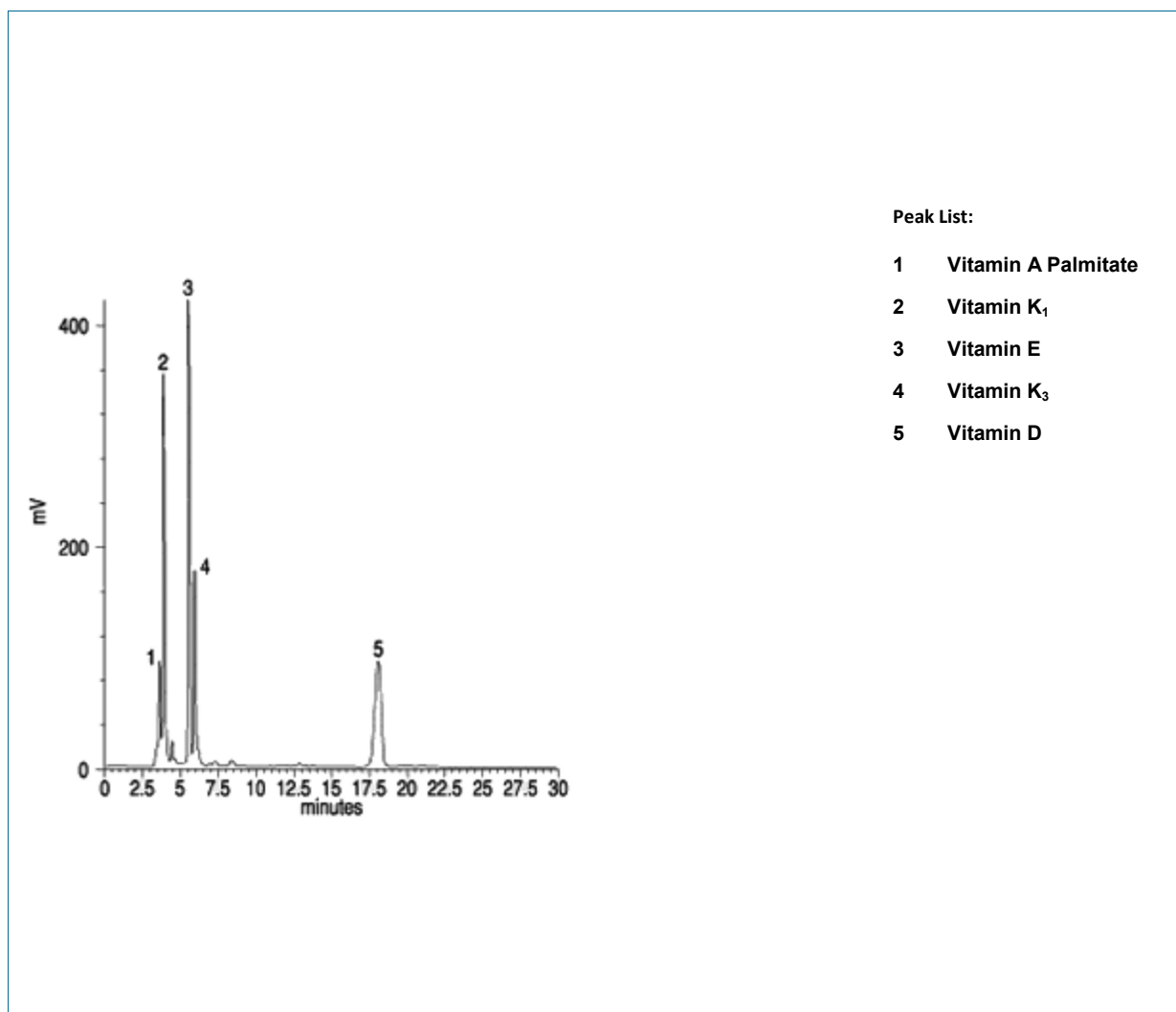
Size: 150 mm x 4.6 mm ID

Eluent: n-Hexane / CHCl₃ = 60 / 40

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: Ambient



Peak List:

- 1 Vitamin A Palmitate**
- 2 Vitamin K₁**
- 3 Vitamin E**
- 4 Vitamin K₃**
- 5 Vitamin D**

TKL 6024

Flavin Nucleotides

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

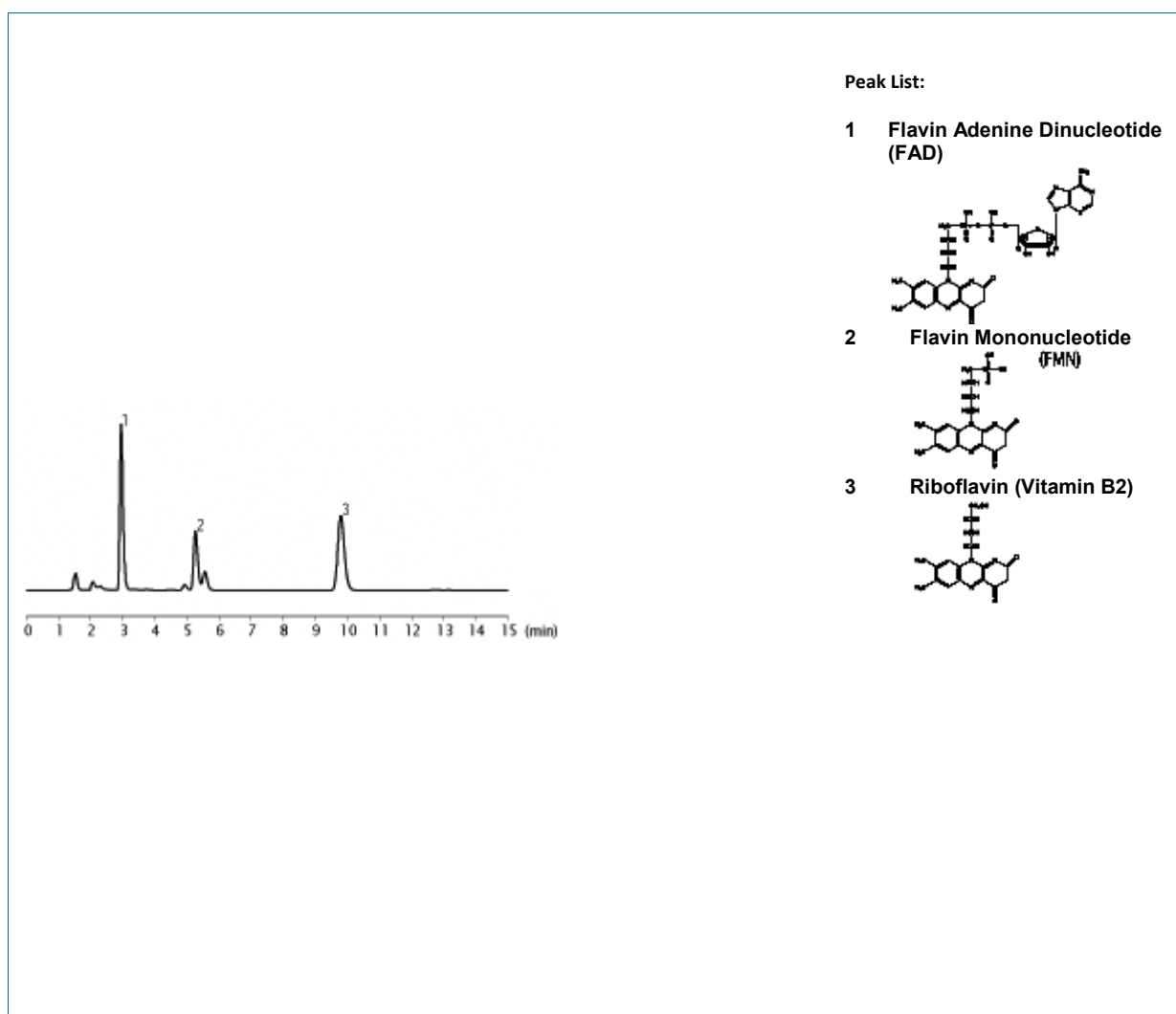
Size: 150 mm x 4.6 mm ID

Eluent: NH₄H₂PO₄ / CH₃CN = 90 / 10

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 35°C



TKL 6025

Flavin Nucleotides

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

Size: 150 mm x 4.6 mm ID

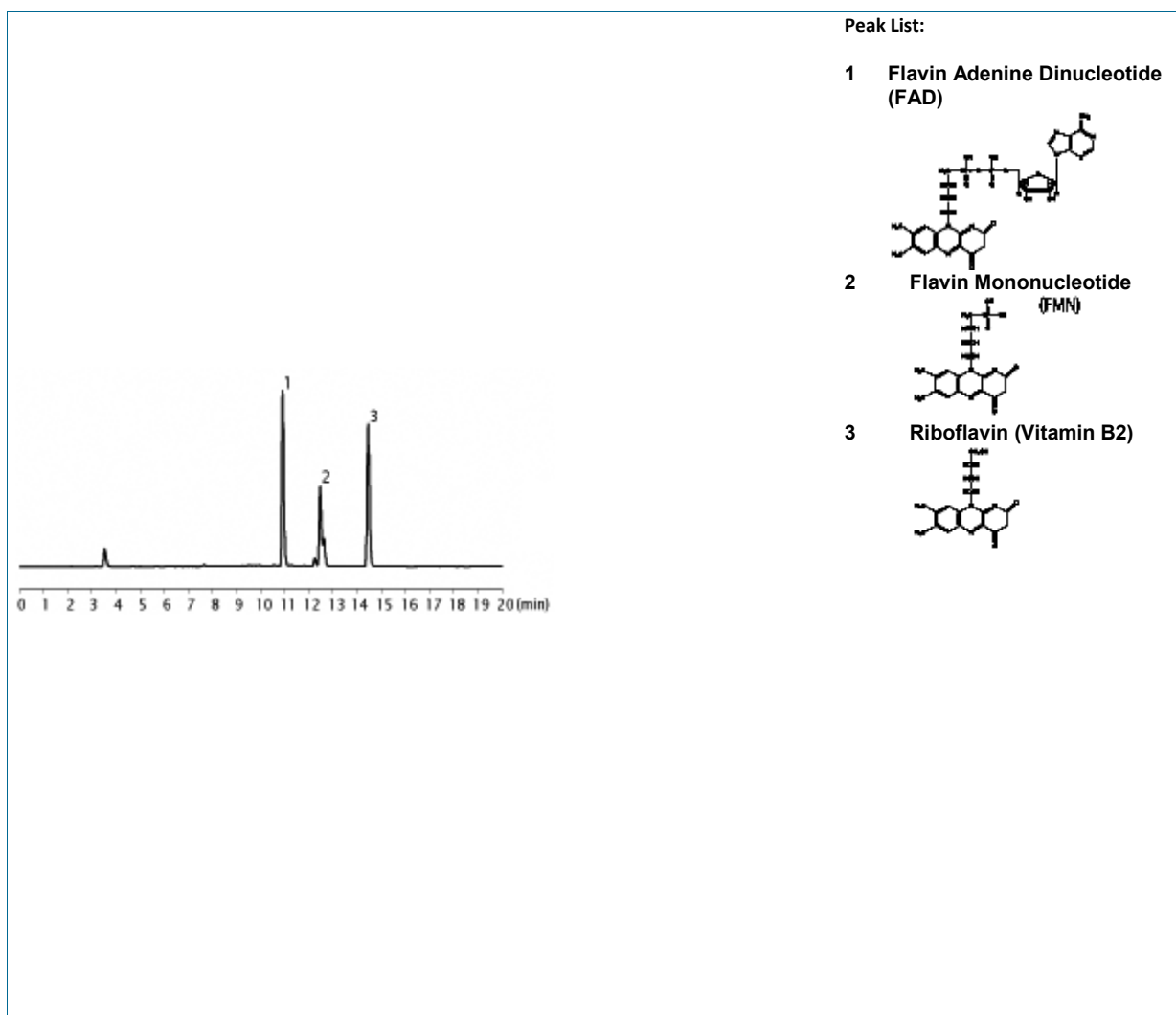
Mobile phase: A) 20 mM NH₄H₂PO₄ B) CH₃CN

A / B = 99 / 1 → A / B = 75 / 25 (0-20 min)

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 35°C



TKL 6026

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Flavin Nucleotides

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

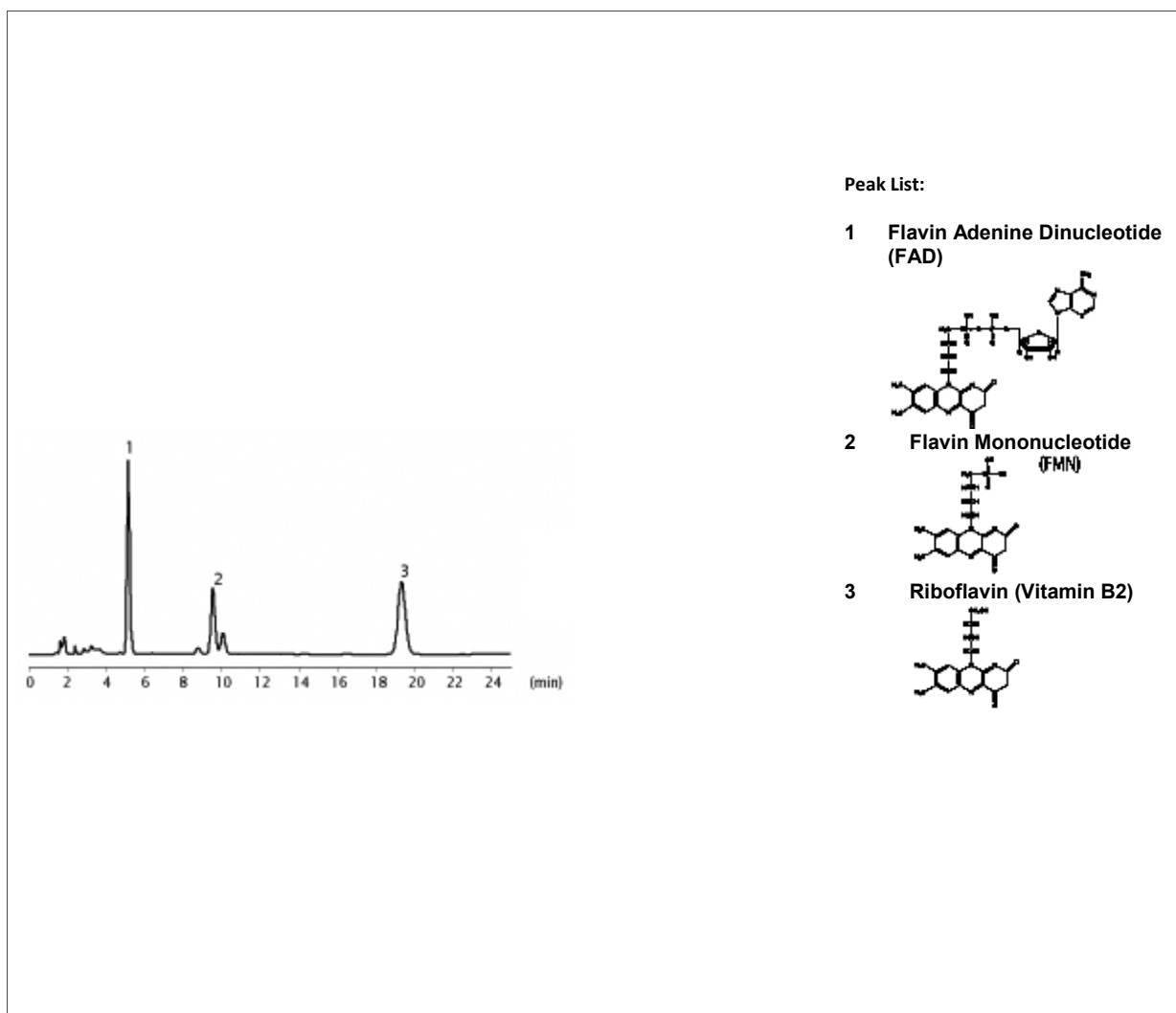
Size: 150 mm x 4.6 mm ID

Eluent: $\text{NH}_4\text{H}_2\text{PO}_4$ / CH_3CN = 90 / 10

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 35°C



TKL 6027

Flavin Nucleotides

Column: **TRACER EXCEL ODS-B** 5 µm, P/N TR-016343

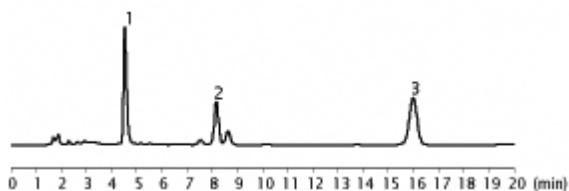
Size: 150 mm x 4.6 mm ID

Eluent: NH₄H₂PO₄ / CH₃CN = 90 / 10

Flow rate: 1.0 mL/min

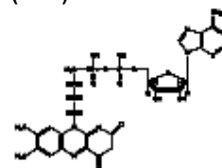
Detector: UV 254 nm

Temperature Column: 35°C

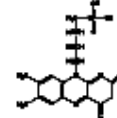


Peak List:

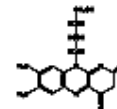
- 1 Flavin Adenine Dinucleotide (FAD)**



- 2 Flavin Mononucleotide (FMN)**



- 3 Riboflavin (Vitamin B2)**



TKL 6028

Flavonoids

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

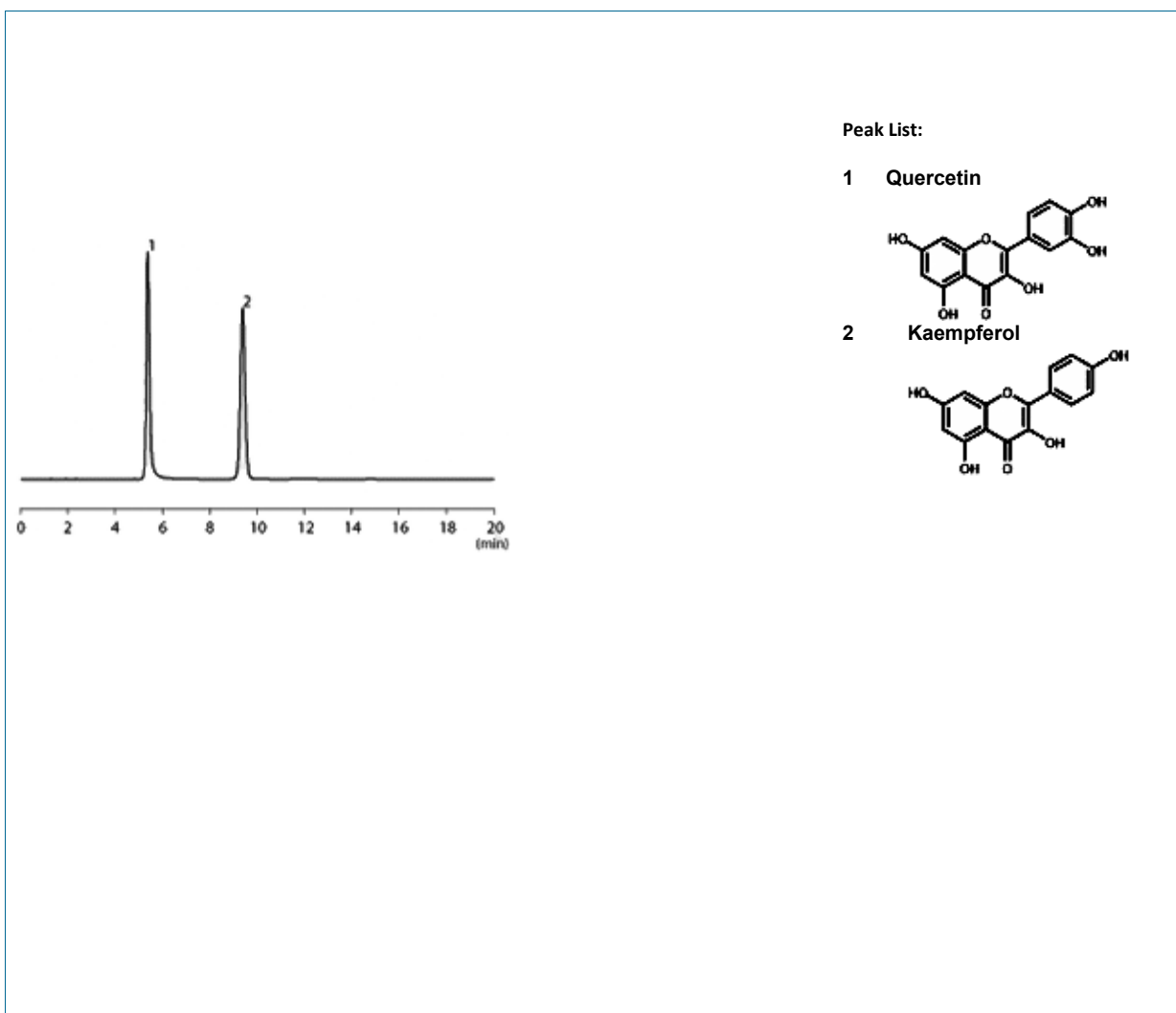
Size: 150 mm x 4.6 mm ID

Eluent: CH_3CN / 10 mM H_3PO_4 = 35 / 65

Flow rate: 1.0 mL/min

Detector: UV 260 nm

Temperature Column: 40°C



TKL 6029

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Flavonoids

Column: **EUROPE PEPTIDE C18** 5 µm, P/N TR-010120

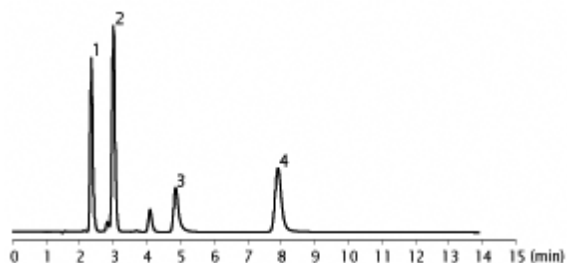
Size: 150 mm x 4.6 mm ID

Eluent: 0,1% H₃PO₄ / CH₃OH = 50 / 50

Flow rate: 1.0 mL/min

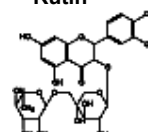
Detector: UV 260 nm

Temperature Column: 40°C

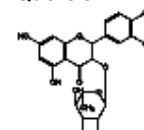


Peak List:

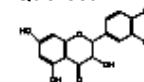
1 **Rutin**



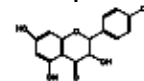
2 **Quercitrin**



3 **Quercetin**



4 **Kaempferol**



TKL 6030

Flavonoids

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

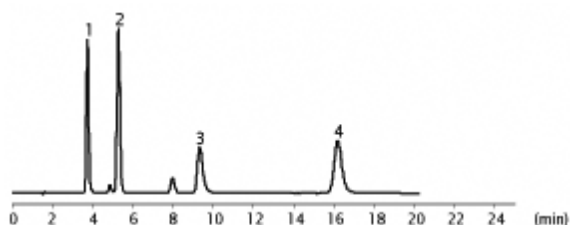
Size: 150 mm x 4.6 mm ID

Eluent: 0,1% H_3PO_4 / CH_3OH = 50 / 50

Flow rate: 1.0 mL/min

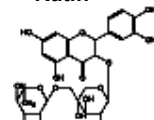
Detector: UV 260 nm

Temperature Column: 40°C

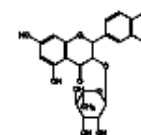


Peak List:

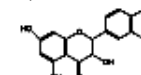
1 Rutin



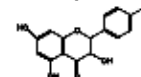
2 Quercitrin



3 Quercetin



4 Kaempferol



TKL 6031

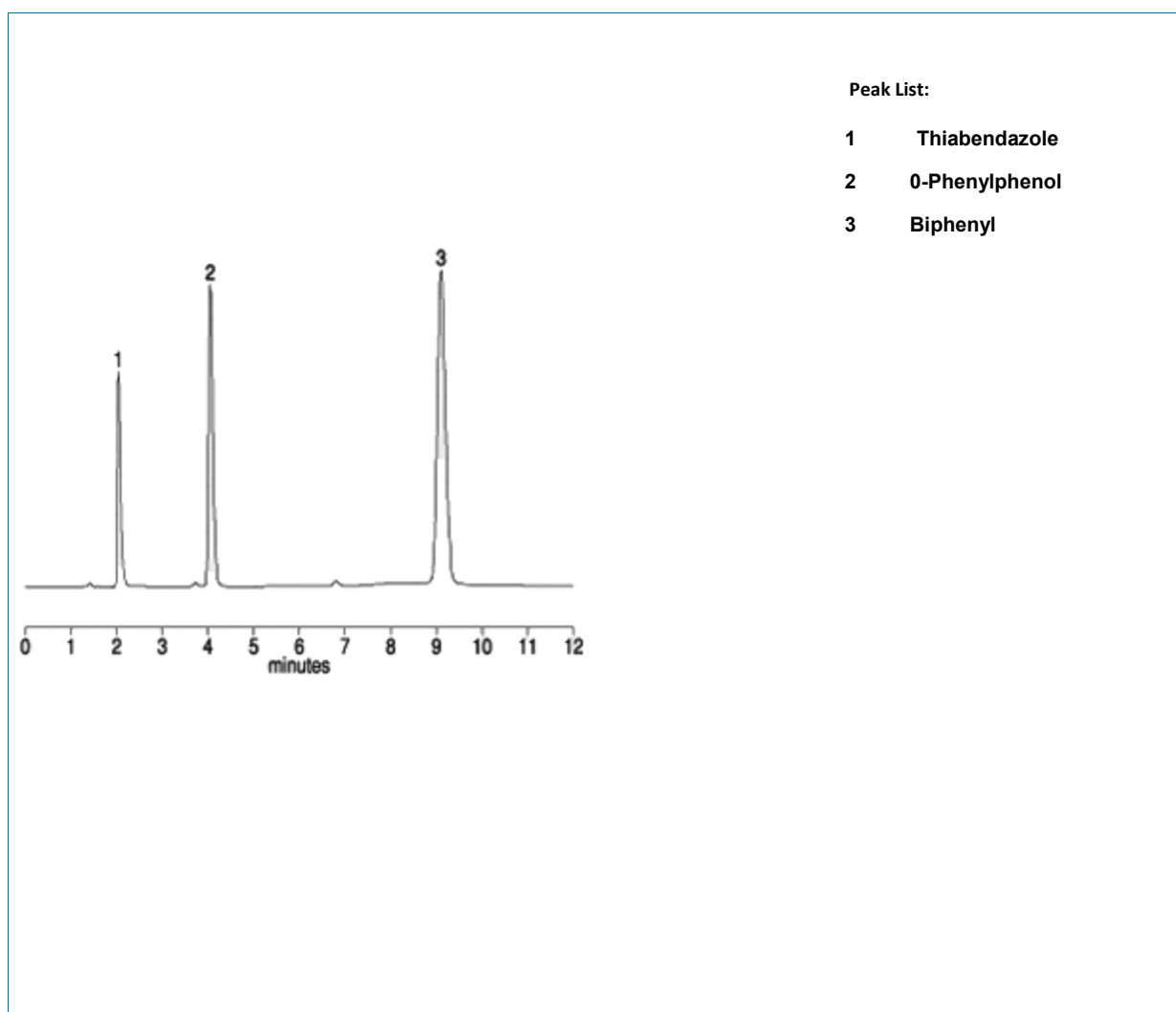
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Fungicides

Column: **MEDITERRANEA SEA 18** 5 μ m, P/N TR-010004
Size: 150 mm x 4.6 mm ID
Eluent: CH₃CN / 30 mM NH₂PO₄ = 65 / 35
Flow rate: 1.0 mL/min
Detector: UV 254 nm
Temperature Column: 40°C



TKL 6032

Glycolic acid, Lactic acid

Column: **TRACER EXCEL ODS-B** 5 µm, P/N TR-016343

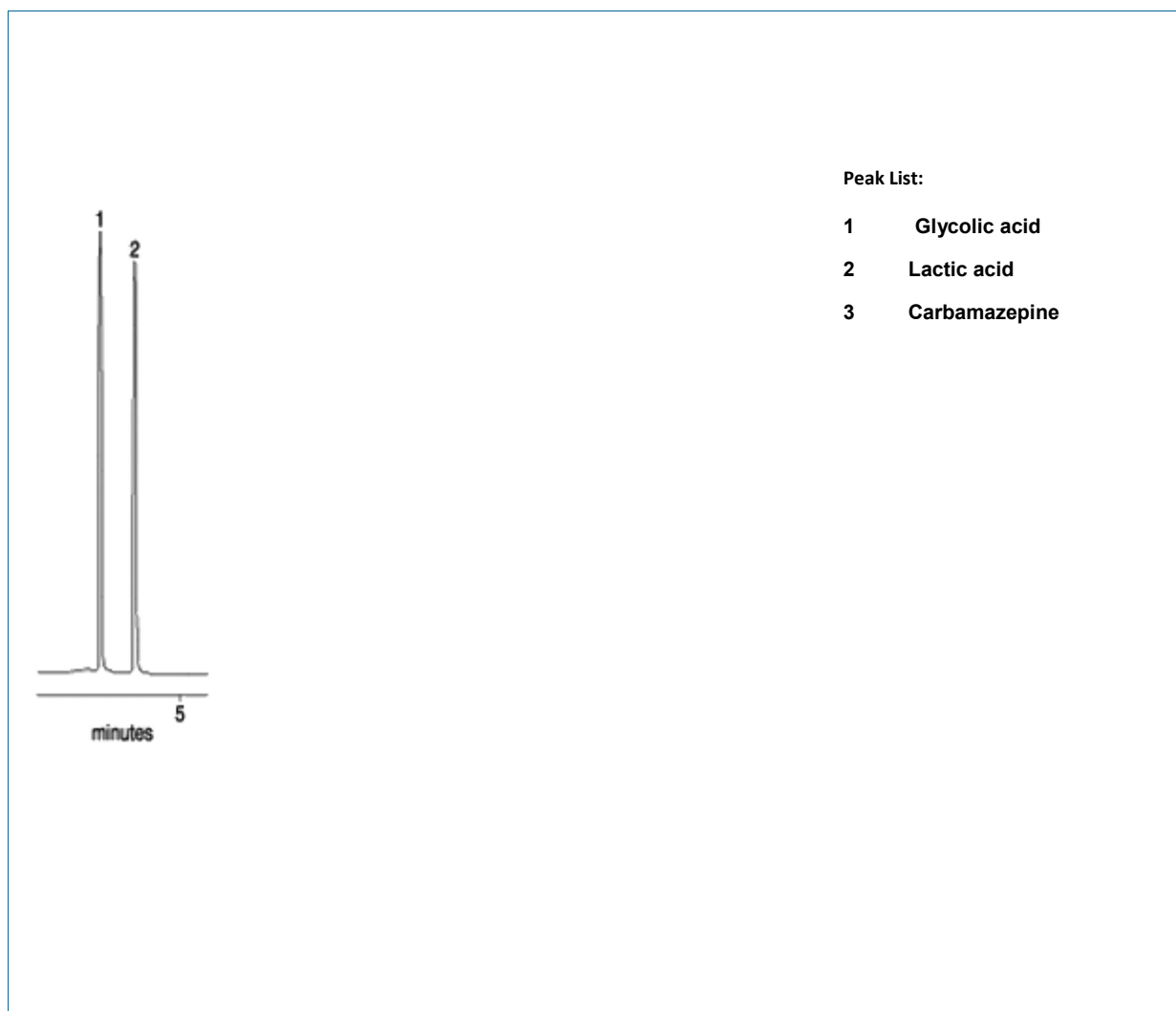
Size: 150 mm x 4.6 mm ID

Eluent: 0,1% H₃PO₄

Flow rate: 1.0 mL/min

Detector: UV 210 nm, 0,32AUFS

Temperature Column: 40°C



TKL 6033

Histamine antagonists

Column: **MEDITERRANEA SEA 18** 5 μ m, P/N TR-010004

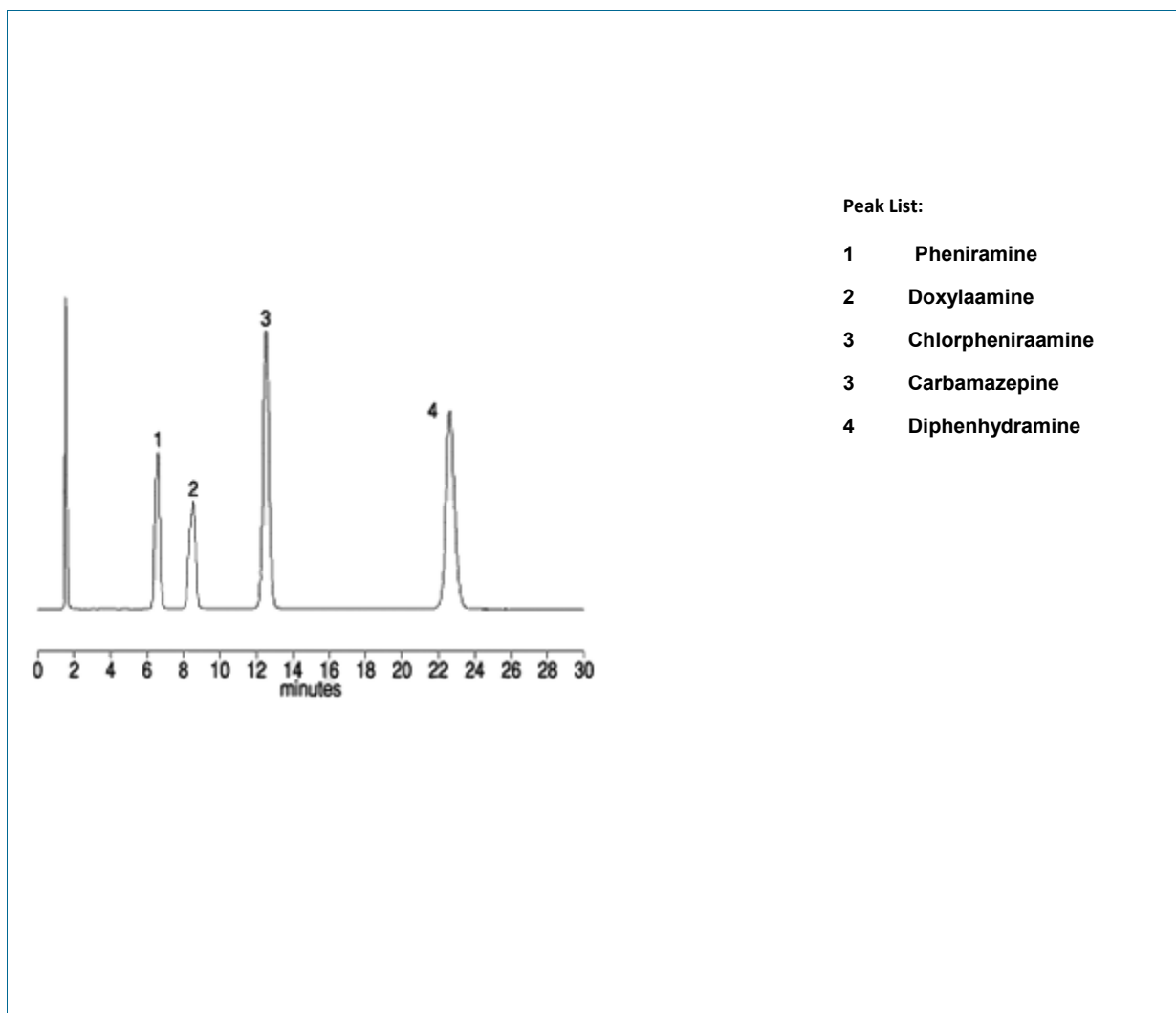
Size: 150 mm x 4.6 mm ID

Eluent: CH₃OH / 20 mM KH₂PO₄ – K₂HPO₄
(pH 7.0) = 60 / 40

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 40°C



TKL 6034

Ingredients in a cough / cold medication

Column: **MEDITERRANEA SEA 18** 5 μ m, P/N TR-010004

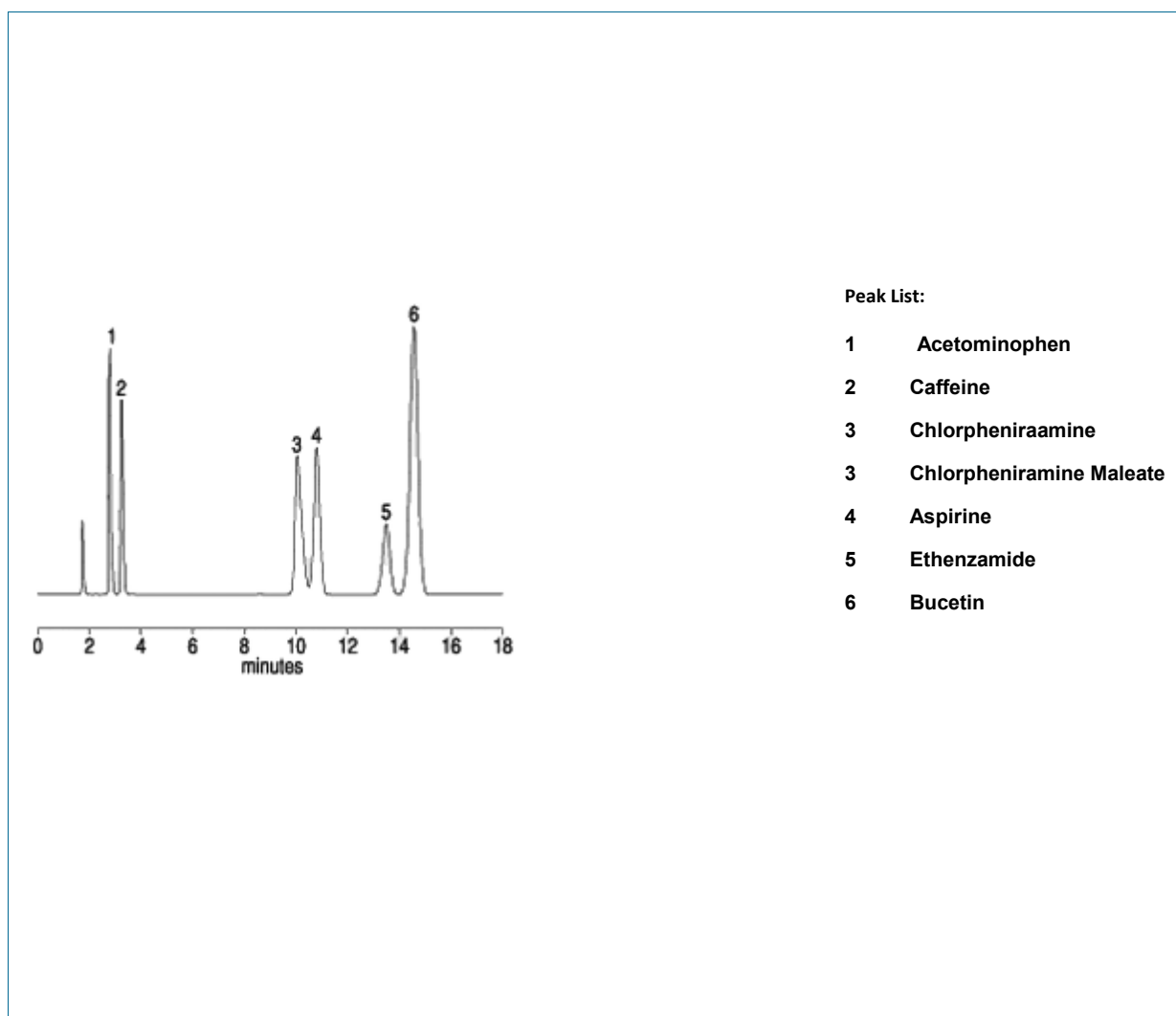
Size: 150 mm x 4.6 mm ID

Eluent: CH₃OH / 50 mM NH₄H₂PO₄ – H₃PO₄
(pH 2.5) = 20 / 80

Flow rate: 1.0 mL/min

Detector: UV 235 nm

Temperature Column: 40°C



TKL 6035

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Isomalto-oligosaccharides

Column **TRACER EXCEL C4** 5 μm , P/N TR-016183

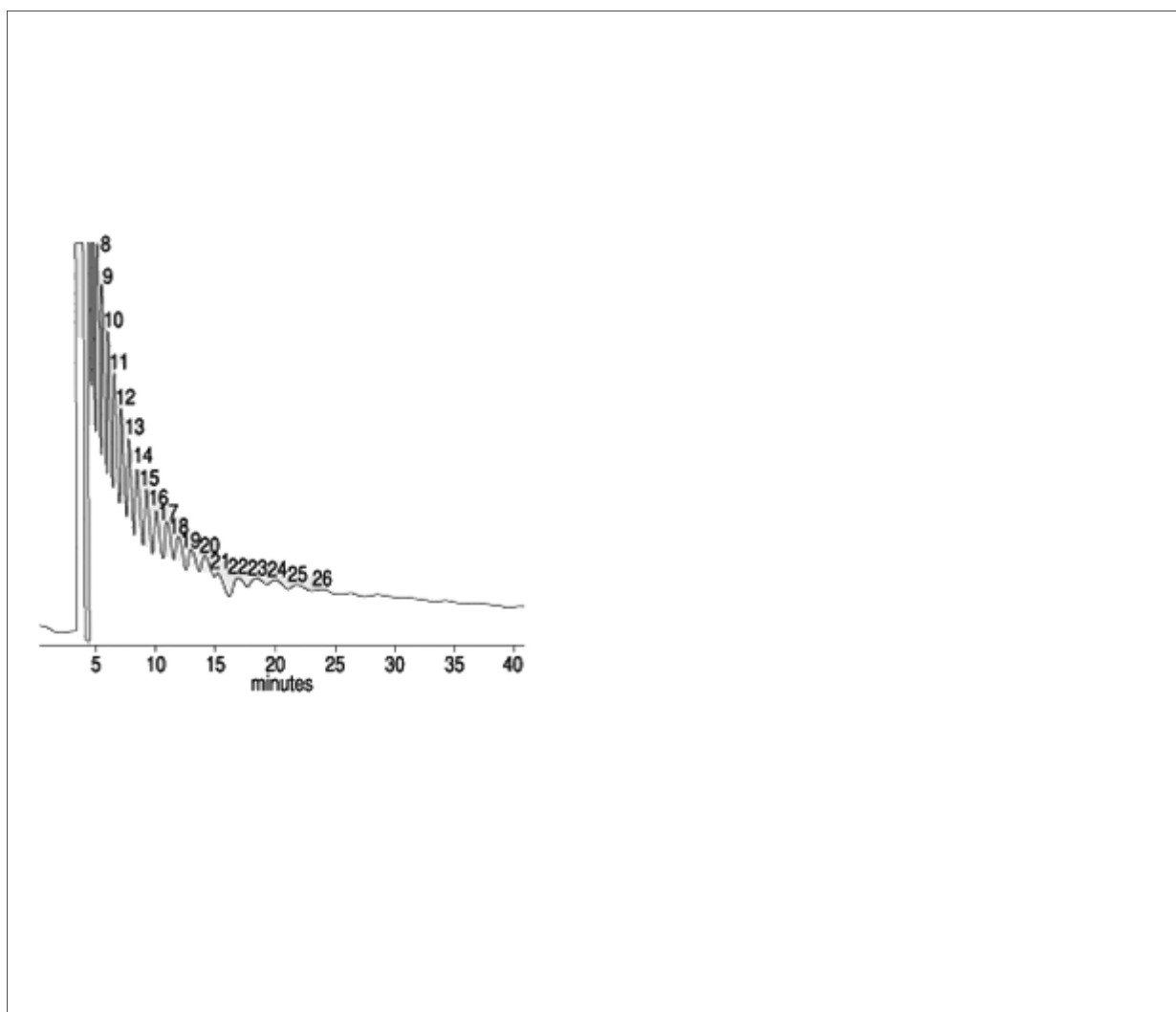
Size: 150 mm x 7.8 mm ID

Eluent: 2.5 % MeOH

Flow rate: 1.0 mL/min

Detector: RID

Temperature Column: 40°C



TKL 6037

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Lipid-lowering drug

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

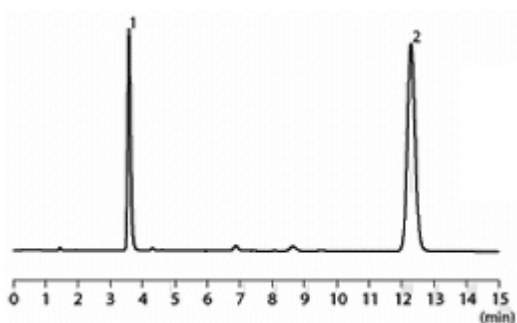
Size: 150 mm x 4.6 mm ID

Eluent: 0.1 % CH_3CN / 0.1 % H_2O = 60 / 40

Flow rate: 1.0 mL/min

Detector: UV 260 nm

Temperature Column: 40°C



Peak List:

- 1 Bezafibrate**
CC(C)(C)C(=O)Oc1ccc(cc1)CNCC(=O)c2ccc(Cl)cc2
- 2 Clofibrate**
CC(C)(C)C(=O)Oc1ccc(cc1)OC(=O)C

TKL 6035

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Malto-oligosaccharides

Column: **TRACER EXCEL NH2** 5 µm, P/N TR-016191

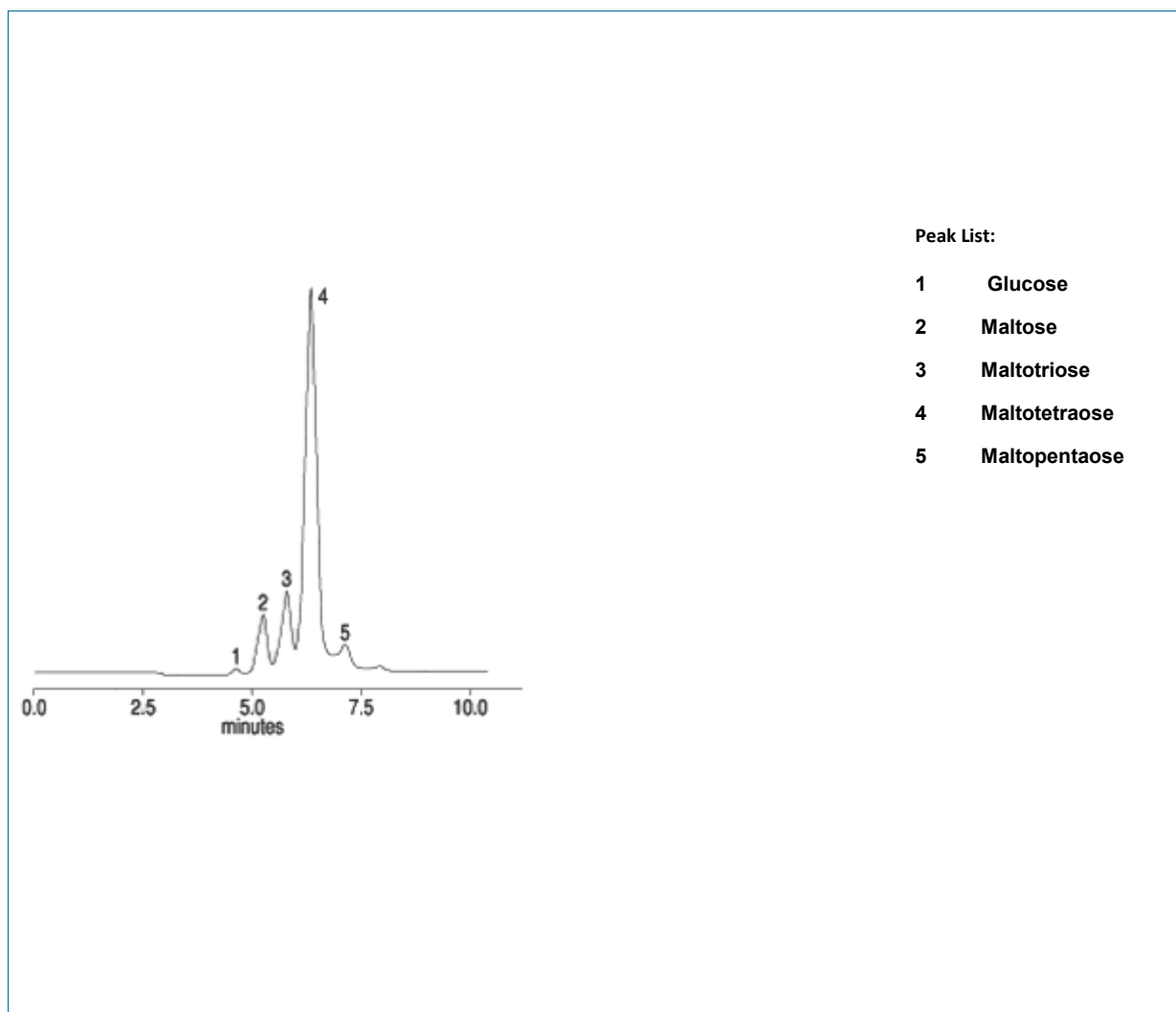
Size: 150 mm x 7.8 mm ID

Eluent: CH₃CN / H₂O = 50 / 50

Flow rate: 1.0 mL/min

Detector: RID

Temperature Column: 40°C



TKL 6039

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Nitroanilines

Column: **TRACER EXCEL Si** 5 µm, P/N TR-016175

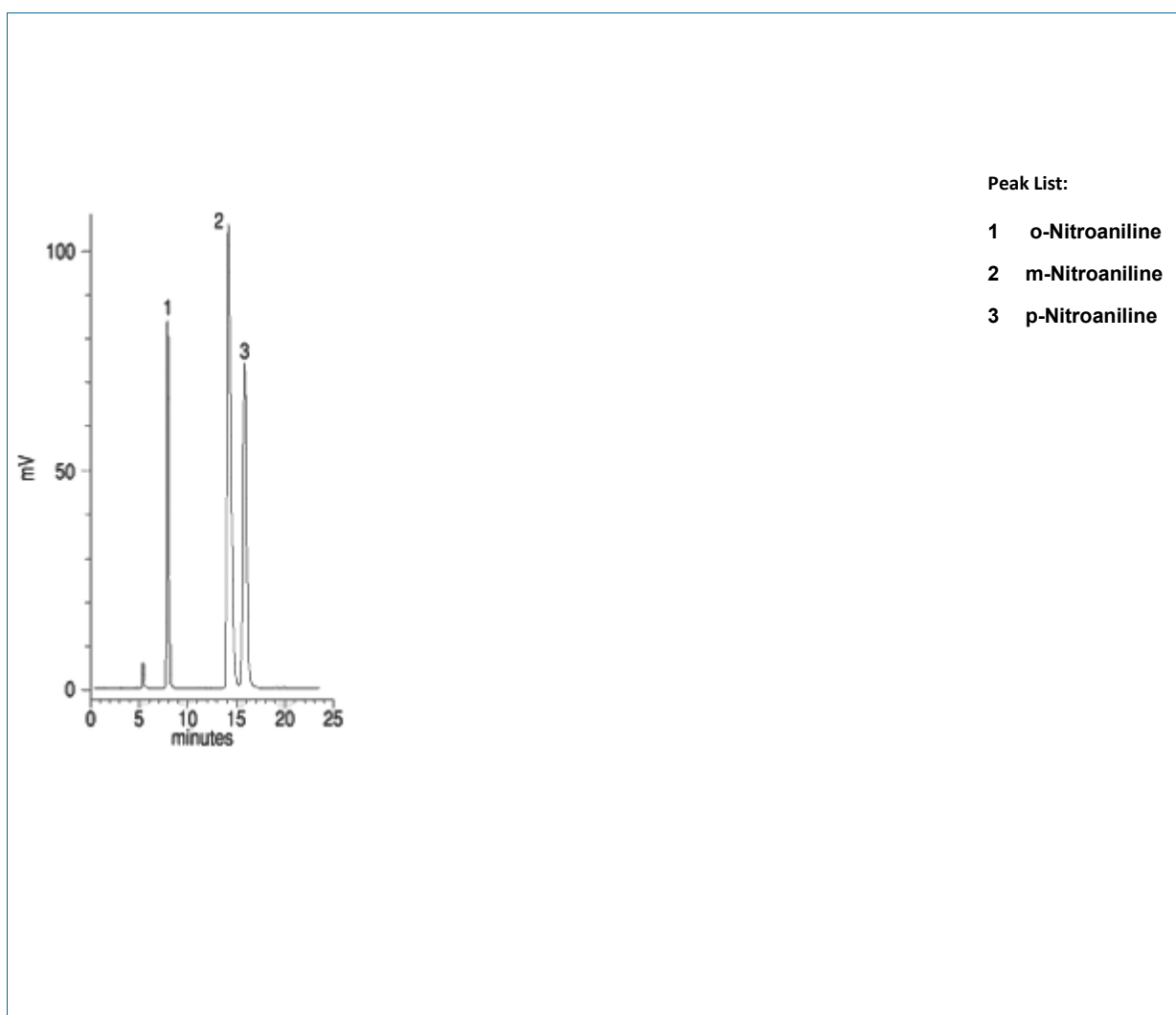
Size: 150 mm x 7.8 mm ID

Eluent: CH₂Cl₂ / n-Hexane = 60 / 40

Flow rate: 0.7 mL/min

Detector: UV 254 nm

Temperature Column: Ambient



TKL 6040

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Non-steroidal anti-inflammatory drugs

Column: **MEDITERRANEA SEA 18** 5 μ m, P/N TR-010004

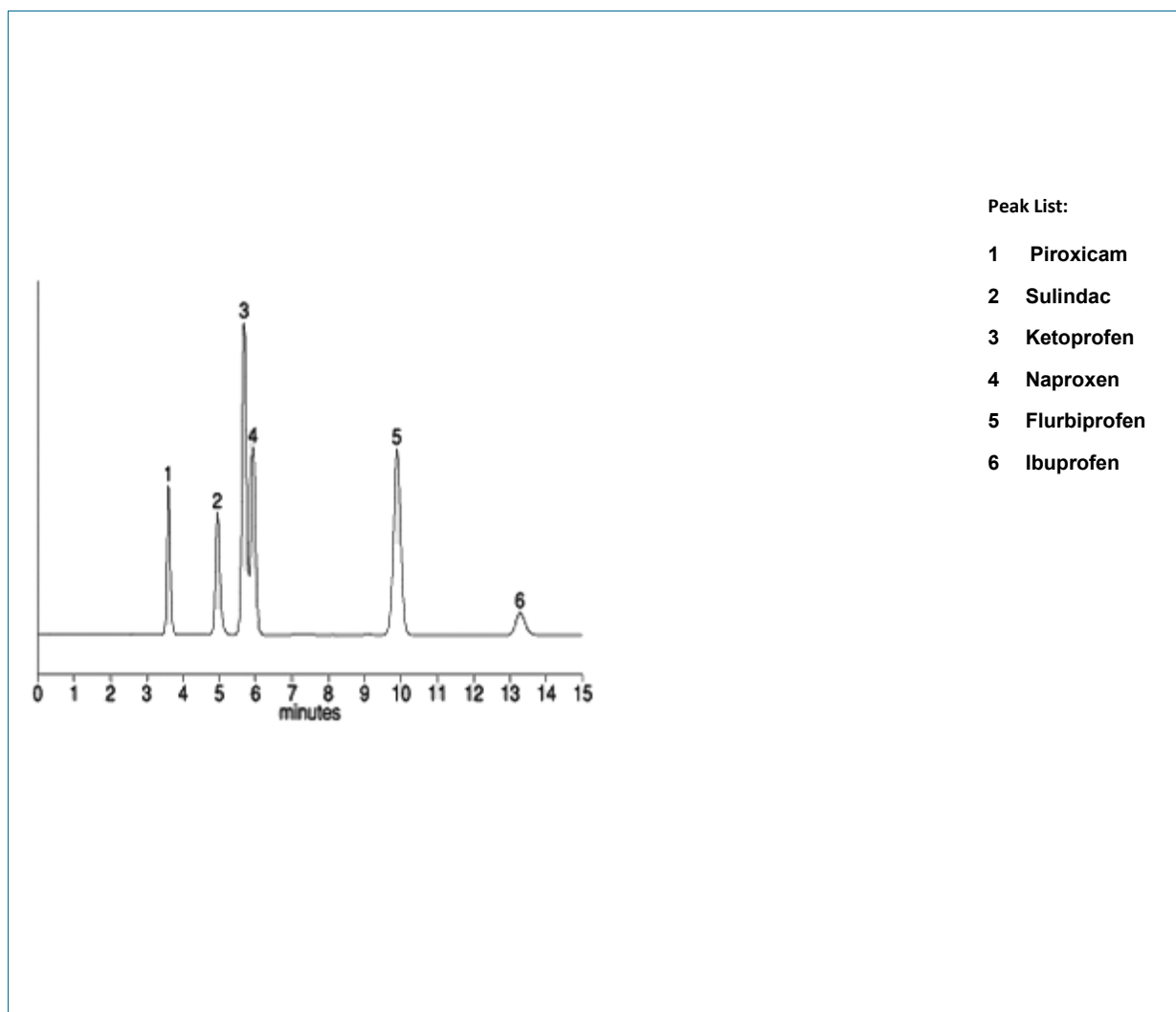
Size: 150 mm x 4.6 mm ID

Eluent: CH₃CN / 1% CH₃COOH aq= 65 / 35

Flow rate: 1.0 mL/min

Detector: UV 260 nm

Temperature Column: 40°C



TKL 6041

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Nucleosides

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010006

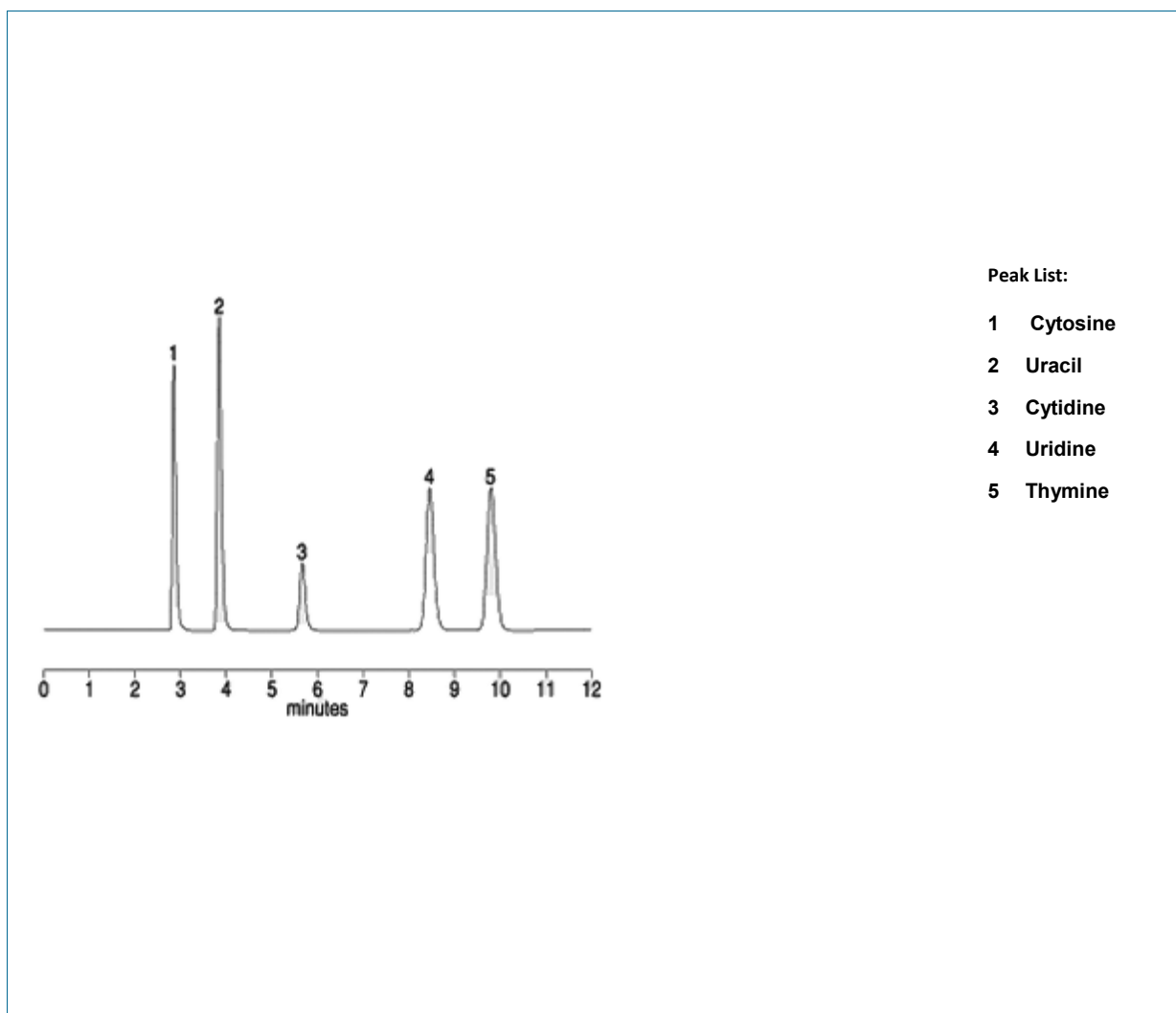
Size: 250 mm x 4.6 mm ID

Eluent: H₂O 100%

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 40°C



TKL 6042

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Nucleosides

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

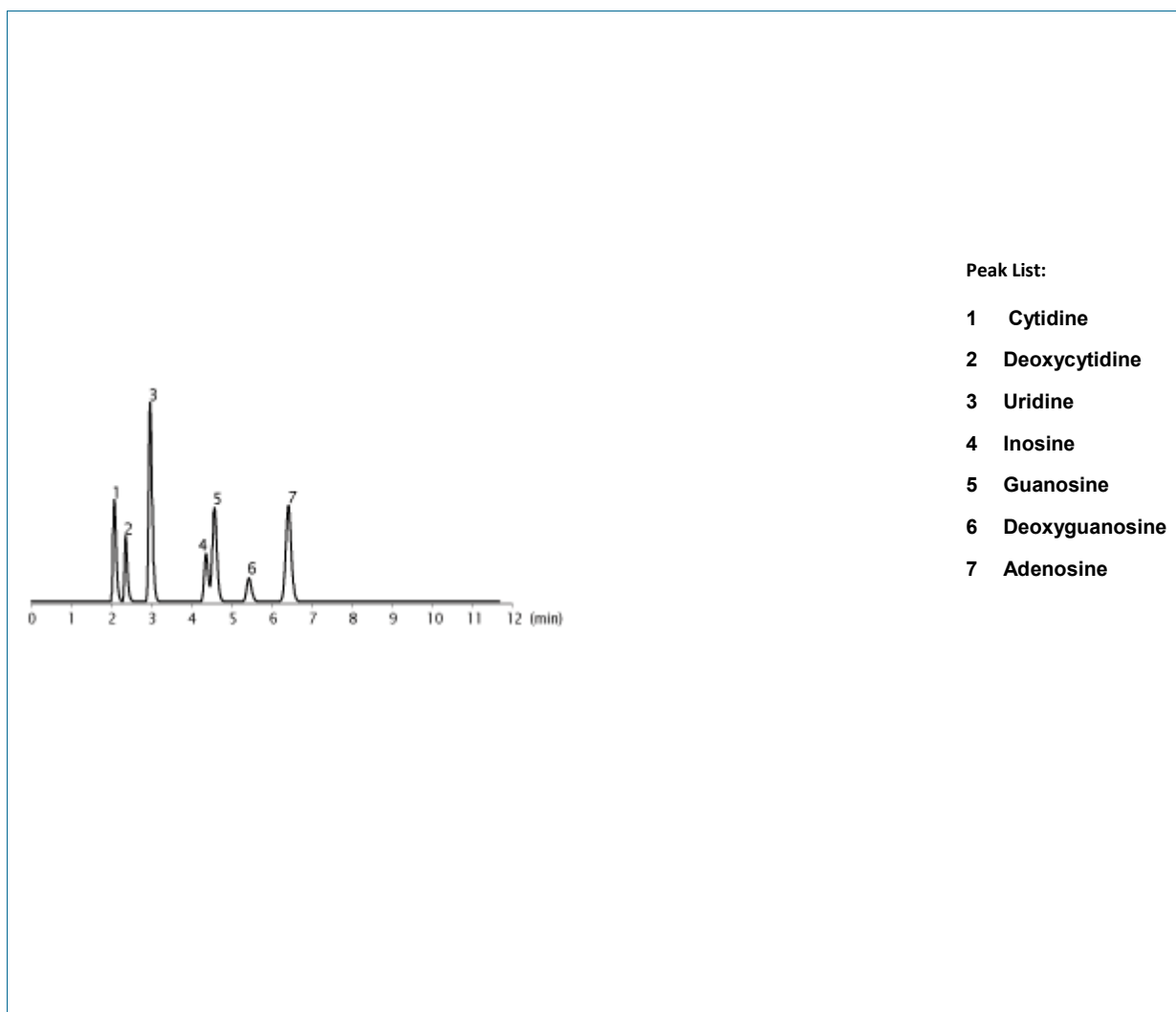
Size: 150 mm x 4.6 mm ID

Eluent: 20 mM KH₂PO₄ – H₃PO₄ (pH 3.2) / C H₃CN = 97 / 3

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 30°C



TKL 6043

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Nucleosides

Column: **EUROPA PEPTIDE C18** 5 µm, P/N TR-010120

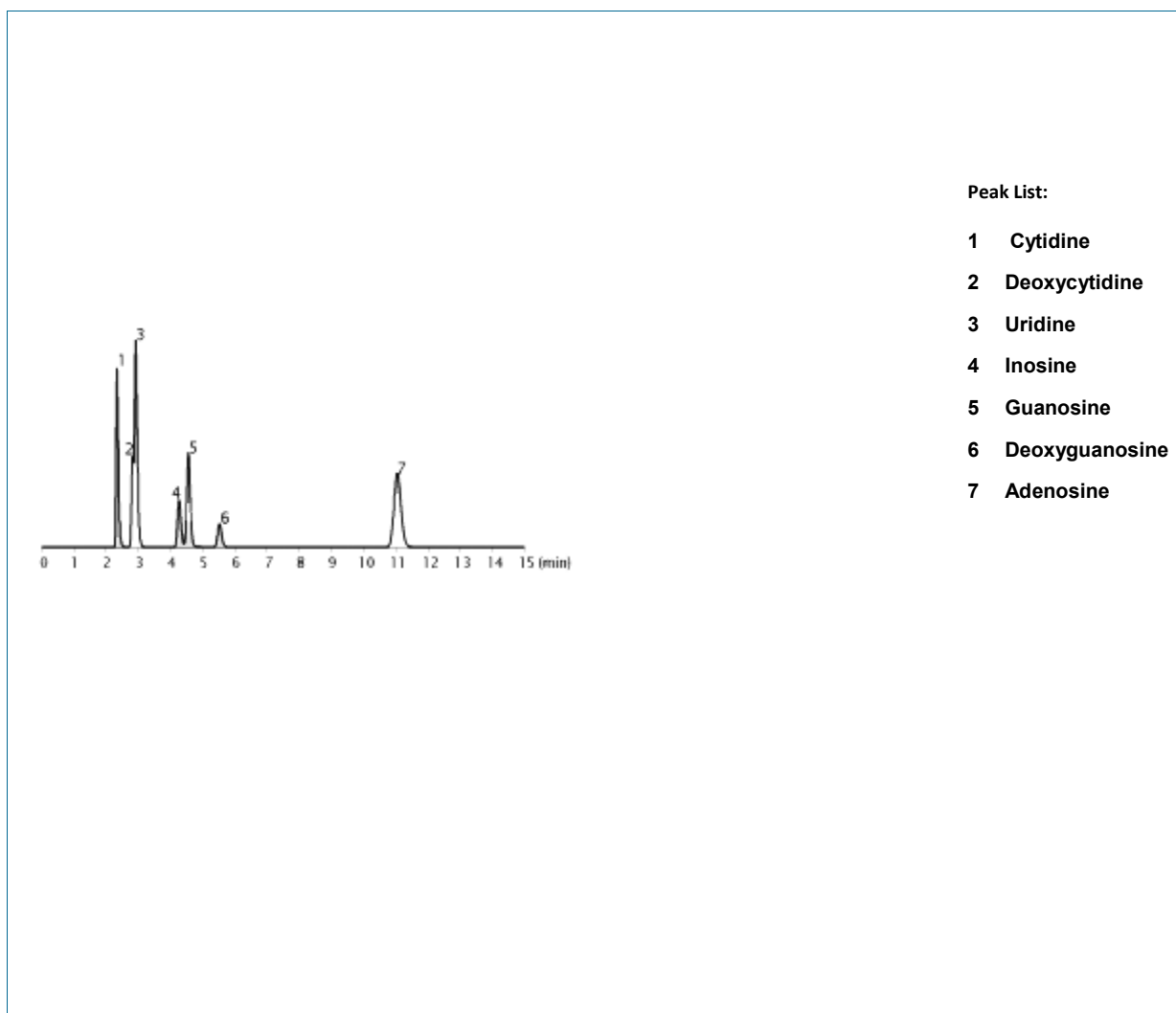
Size: 150 mm x 4.6 mm ID

Eluent: 20 mM KH₂PO₄ – K₂HPO₄ (pH 7.0) / CH₃CN = 97 / 3

Flow rate: 1.0 mL/min

Detector: UV 254 nm

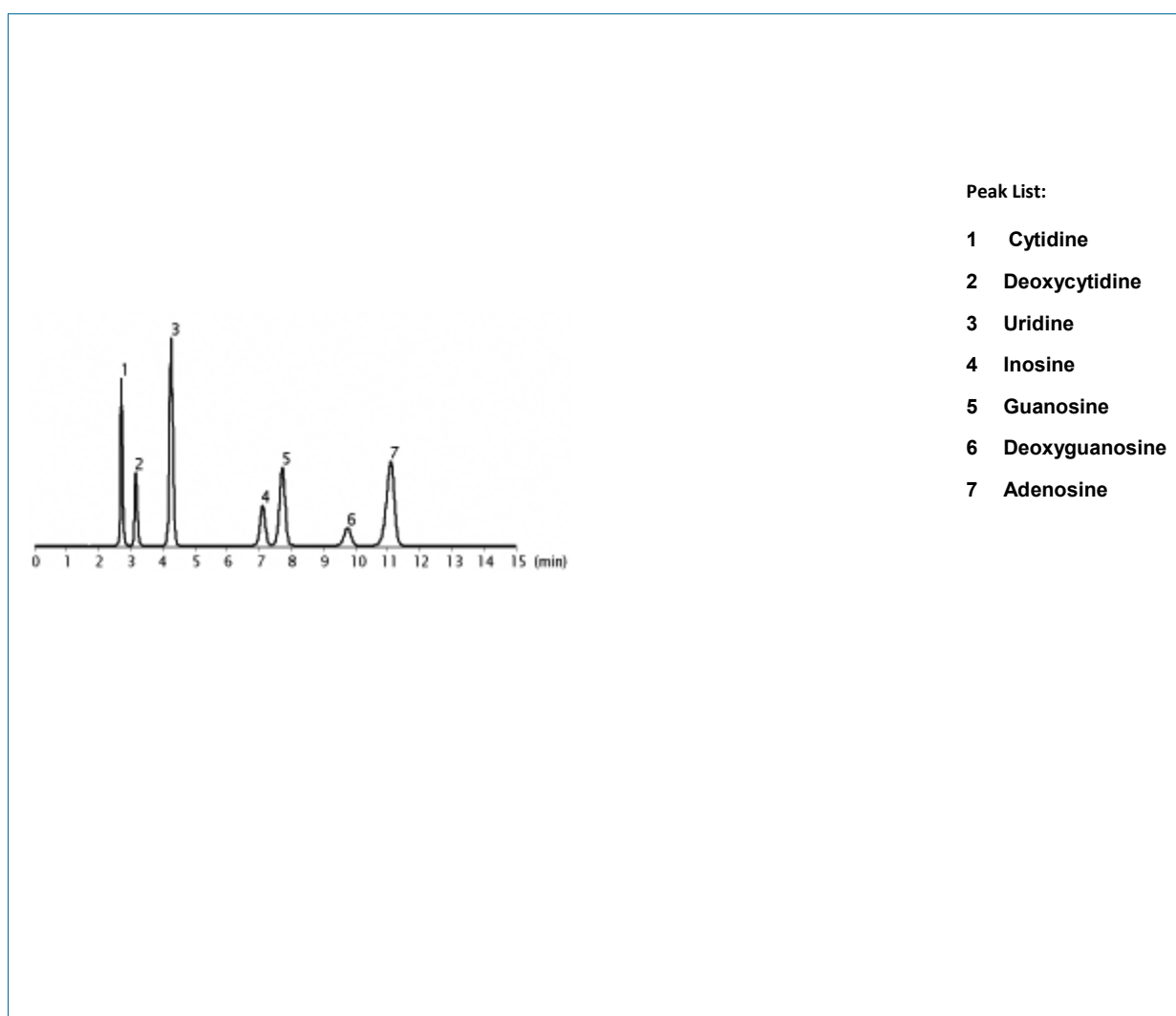
Temperature Column: 30°C



TKL 6044

Nucleosides

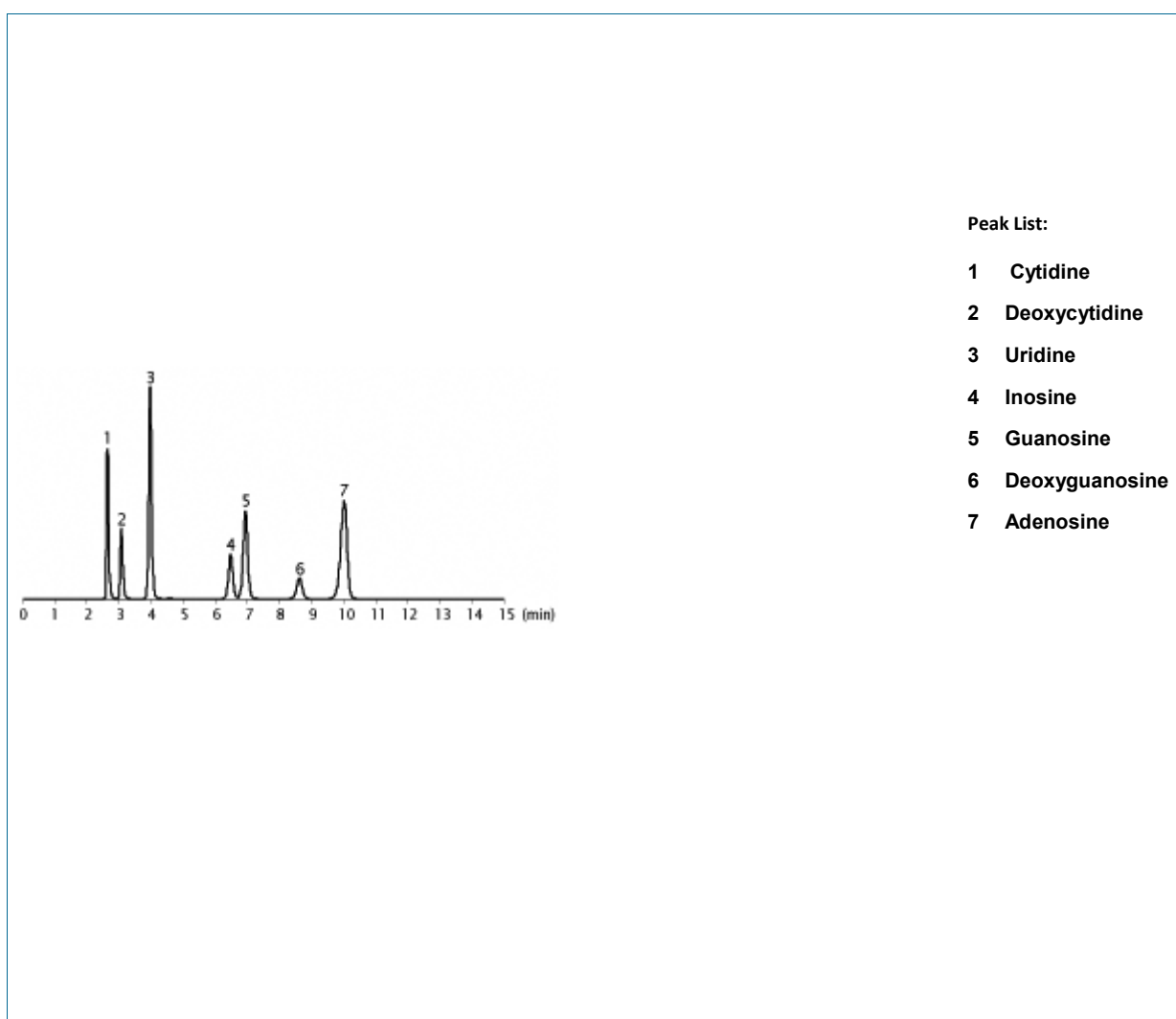
Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004
Size: 150 mm x 4.6 mm ID
Eluent: 20 mM $\text{KH}_2\text{PO}_4 - \text{H}_3\text{PO}_4$ (pH 3.2) / $\text{CH}_3\text{CN} = 97 / 3$
Flow rate: 1.0 mL/min
Detector: UV 254 nm
Temperature Column: 30°C



TKL 6045

Nucleosides

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016343
Size: 150m x 4.6 mm ID
Eluent: 20 mM $\text{KH}_2\text{PO}_4 - \text{H}_3\text{PO}_4$ (pH 3.2) / $\text{CH}_3\text{CN} = 97 / 3$
Flow rate: 1.0 mL/min
Detector: UV 254 nm
Temperature Column: 30°C



TKL 6046

Oil-soluble vitamins

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

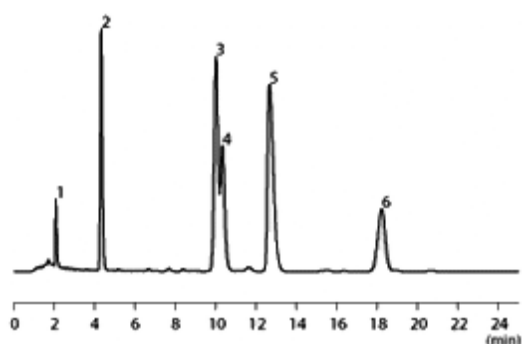
Size: 150 mm x 4.6 mm ID

Eluent: CH_3OH / CH_3CN = 35 / 65

Flow rate: 1.0 mL/min

Detector: UV 280 nm

Temperature Column: 40°C



Peak List:

- 1 Vitamin K₃ (Menadione)
- 2 Vitamin A (Retinol)
- 3 Vitamin D₂ (Ergocalciferol)
- 4 Vitamin D₃ (Cholecalciferol)
- 5 Vitamin E (α -Tocopherol)
- 6 Vitamin K₁ (Phylloquinone)

TKL 6047

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Oligonucleotides

Column: **MEDITERRANEA SEA 18** 5 μ m, P/N TR-010004

Size: 150 mm x 4.6 mm ID

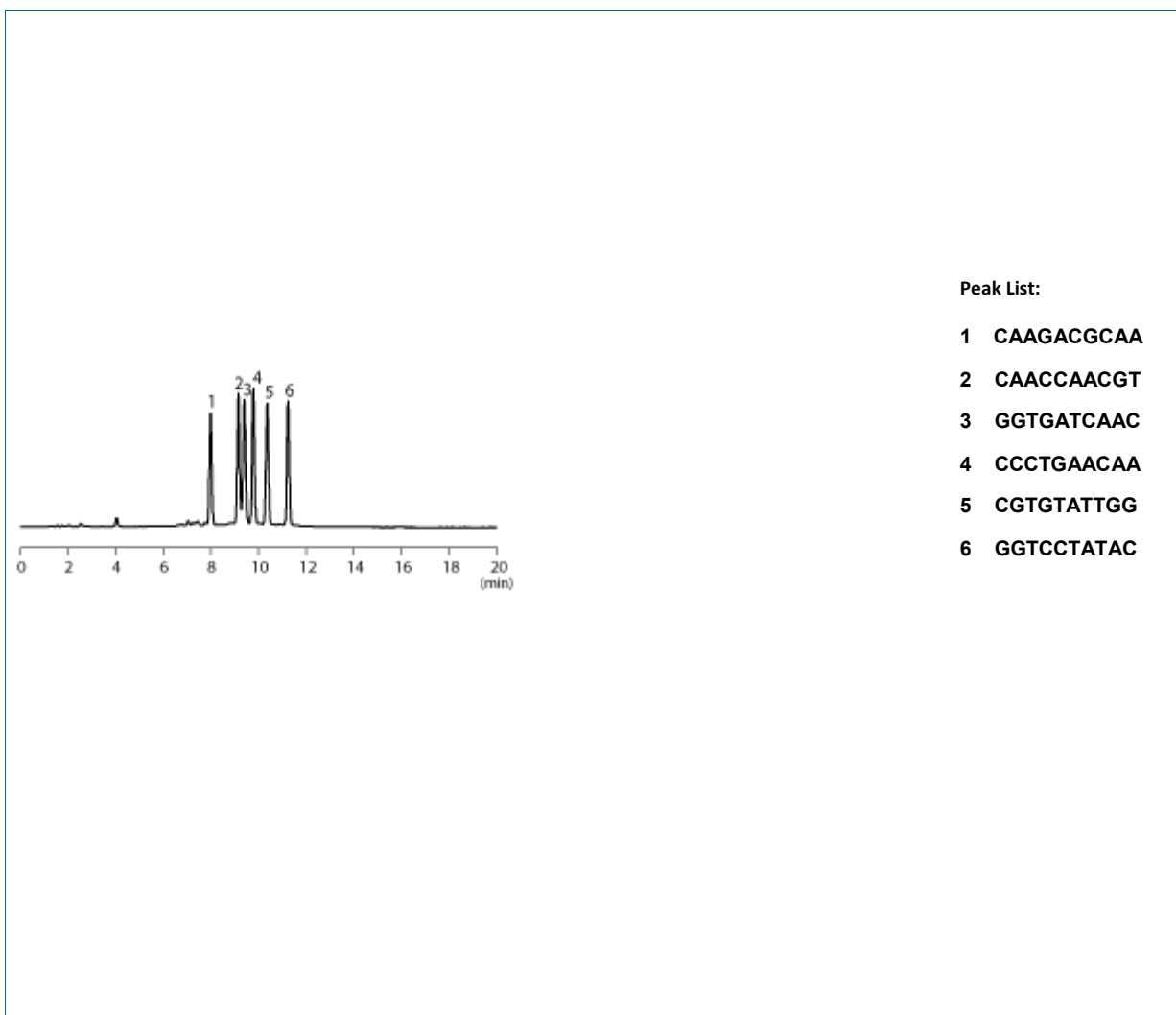
Mobile phase: A) 50 mM Potassium Phosphate (pH 7.0), B)CH₃ CN

A / B = 95 / 5 \rightarrow A / B = 85 / 15 (0-20 min).

Flow rate: 1.0 mL/min

Detector: UV 260 nm

Temperature Column: 25°C



TKL 6048

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Organic acids

Column: **TRACER EXCEL ODS-B** 5 μ m, P/N TR-016171

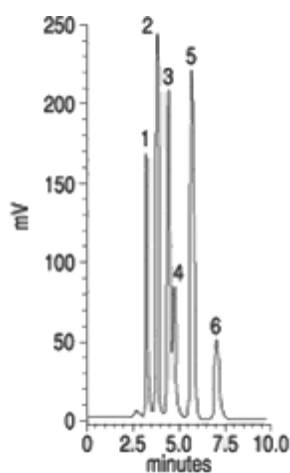
Size: 150 mm x 7.8 mm ID

Eluent: 30 mM Sodium Phosphate (pH 2.5 with H₃PO₄)

Flow rate: 1.0 mL/min

Detector: UV 210 nm

Temperature Column: 40°C



Peak List:

- 1 Malonic acid
- 2 Nortriptyline
- 3 Acetic acid
- 4 Lactic acid
- 5 Citric acid
- 6 Succinic acid

TKL 6049

Organic acids

Column: **MEDITERRANEA SEA 18** 5 µm, P/N TR-010004

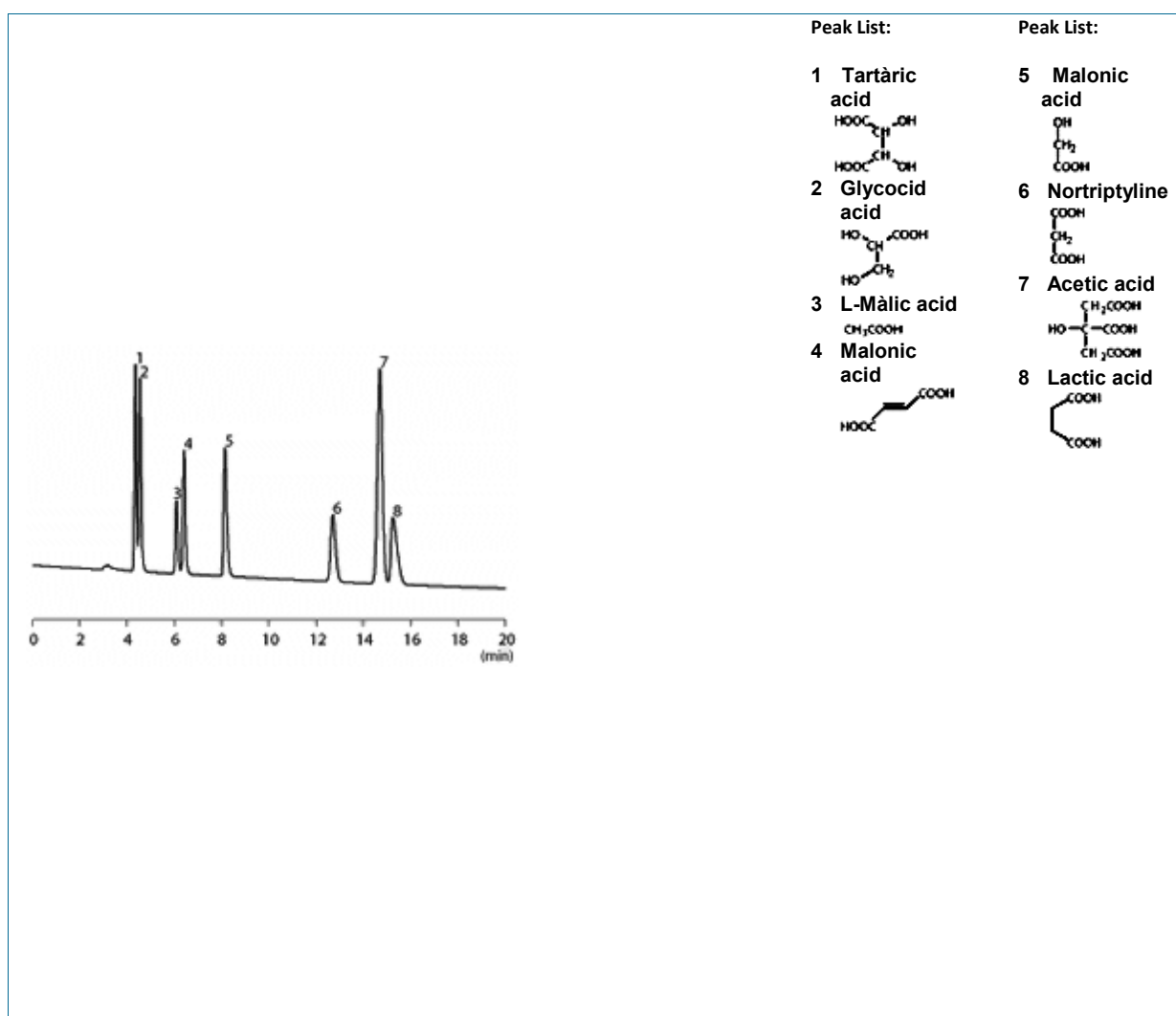
Size: 150 nm x 4.6 mm ID

Eluent: 50 mM NH₄H₂PO₄ – H₃PO₄ (pH = 2.5)

Flow rate: 0.8 mL/min

Detector: UV 210 nm

Temperature Column: 30°C



TKL 6050

Parabens

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

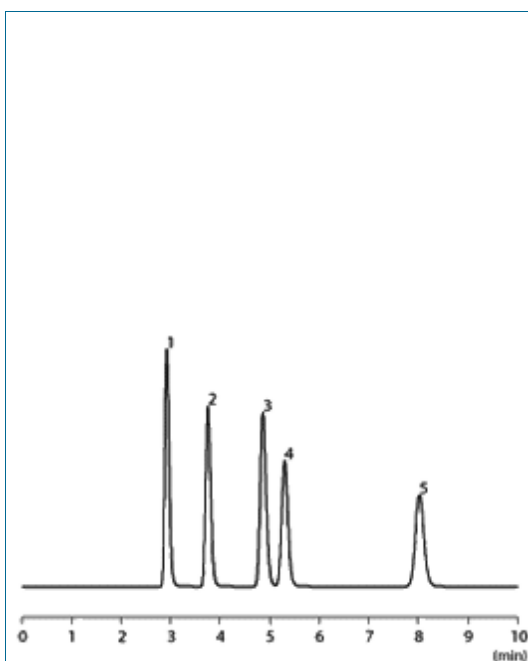
Size: 150 mm x 4.6 mm ID

Eluent: CH_2OH_4 / H_2O = 65 / 35

Flow rate: 1.0 mL/min

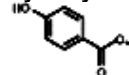
Detector: UV 254 nm

Temperature Column: 40°C

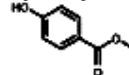


Peak List:

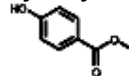
1 Methyl-p-hydroxybenzoate



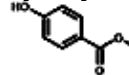
2 Ethyl-p-hydroxybenzoate



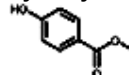
3 Isopropyl-p-hydroxybenzoate



4 n-Propyl-p-hydroxybenzoate



5 Butyl-p-hydroxybenzoate



TKL 6051

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Penicillin

Column: **MEDITERRANEA SEA 18** 5 μm , P/N TR-010004

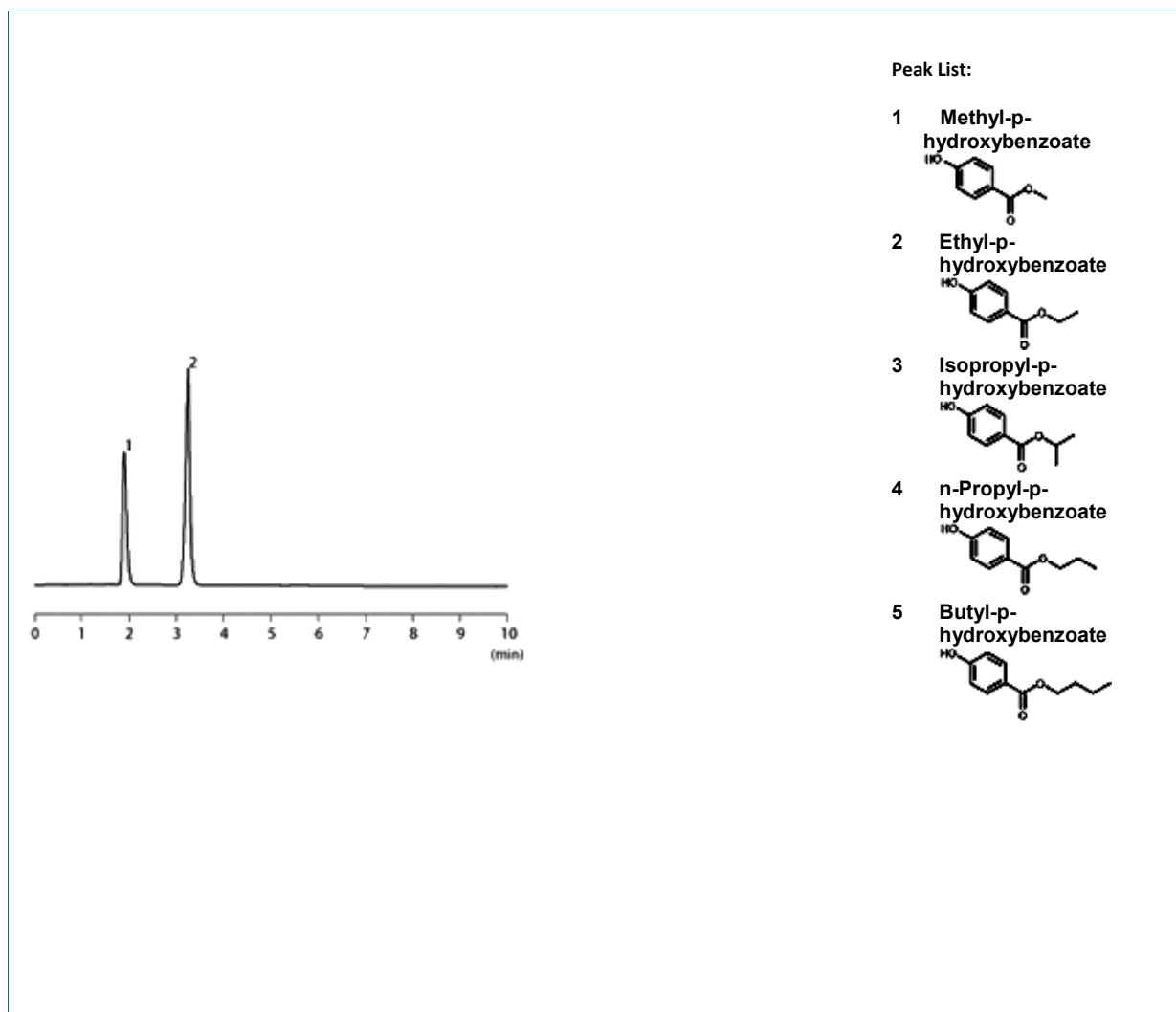
Size: 150 mm x 4.6 mm ID

Eluent: 20 mM KH_2PO_4 + 5 mM Sodium 1-Decanesulfate / CH_3CN
= 20 / 80

Flow rate: 1.0 mL/min

Detector: UV 254 nm

Temperature Column: 40°C



TKL 6052