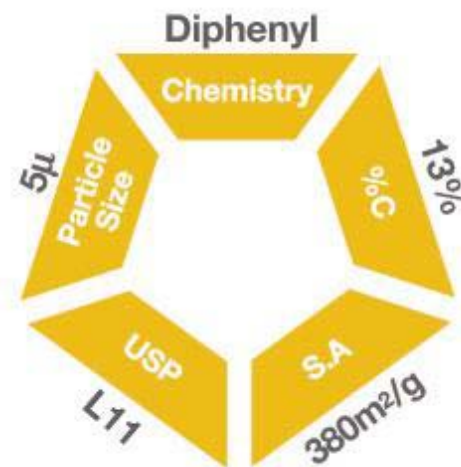




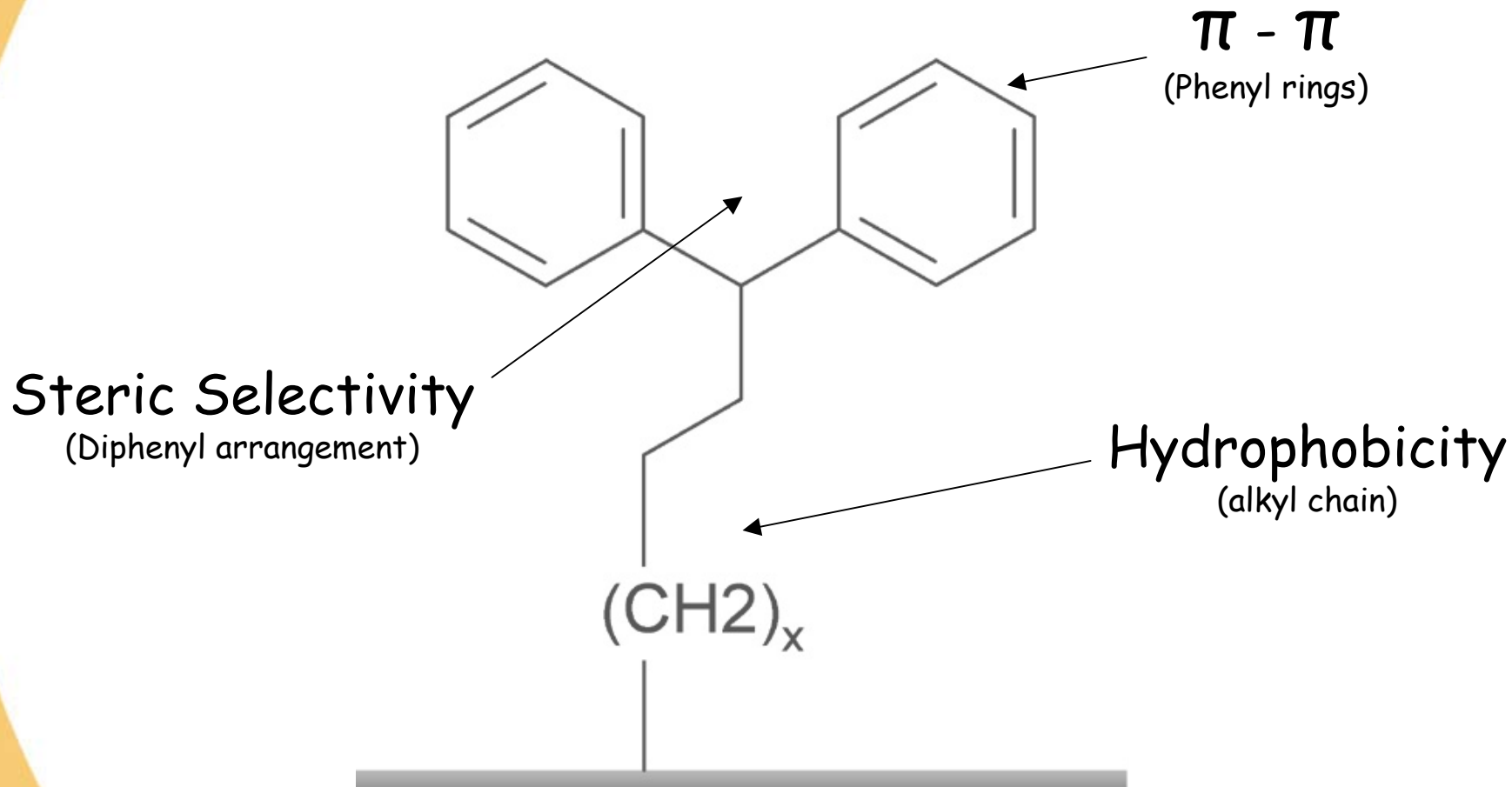
Fortis Phenyl

- Unique Diphenyl
 - Positional Isomers
 - Closely related species
- 3 Retention Mechanisms
 - Hydrophobic
 - Steric
 - π - π
- Extra Retention
- No MS/UV “Bleed”
- Fully Scalable



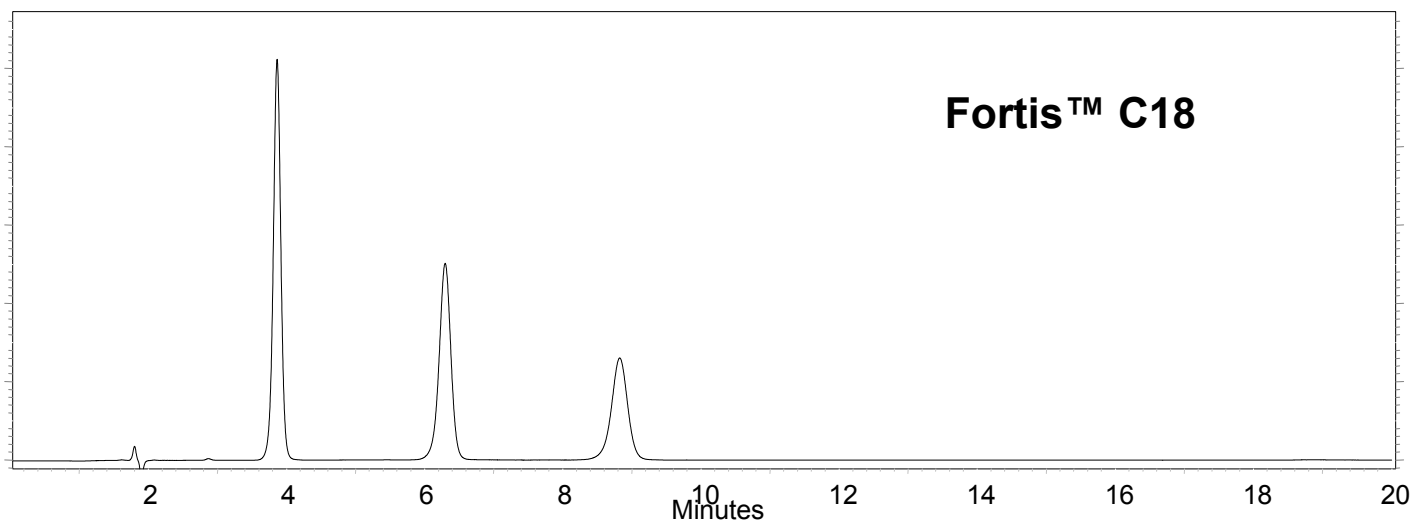
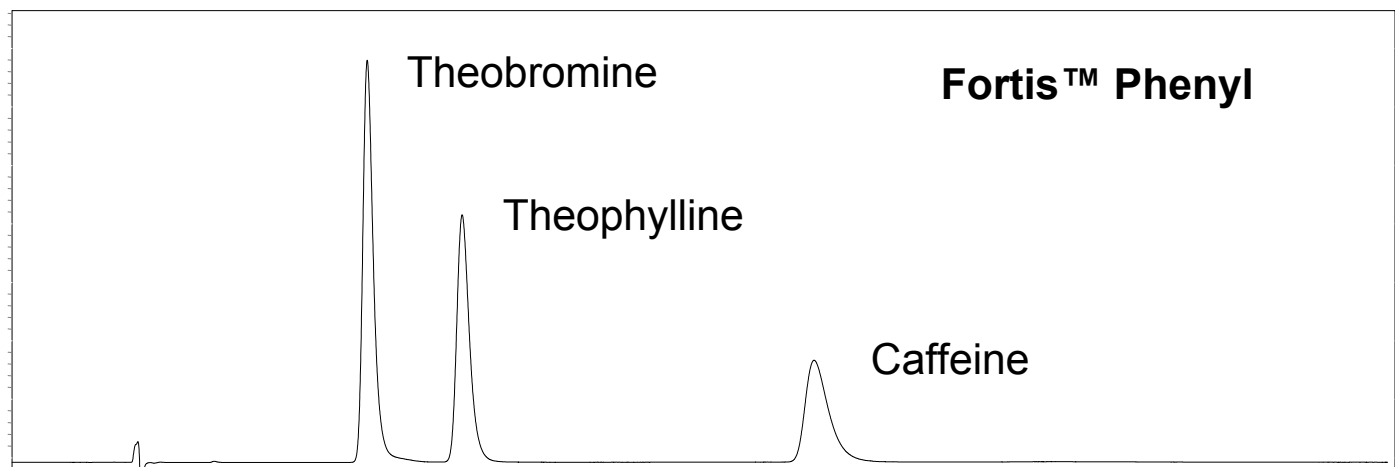


Fortis Phenyl





Selectivity

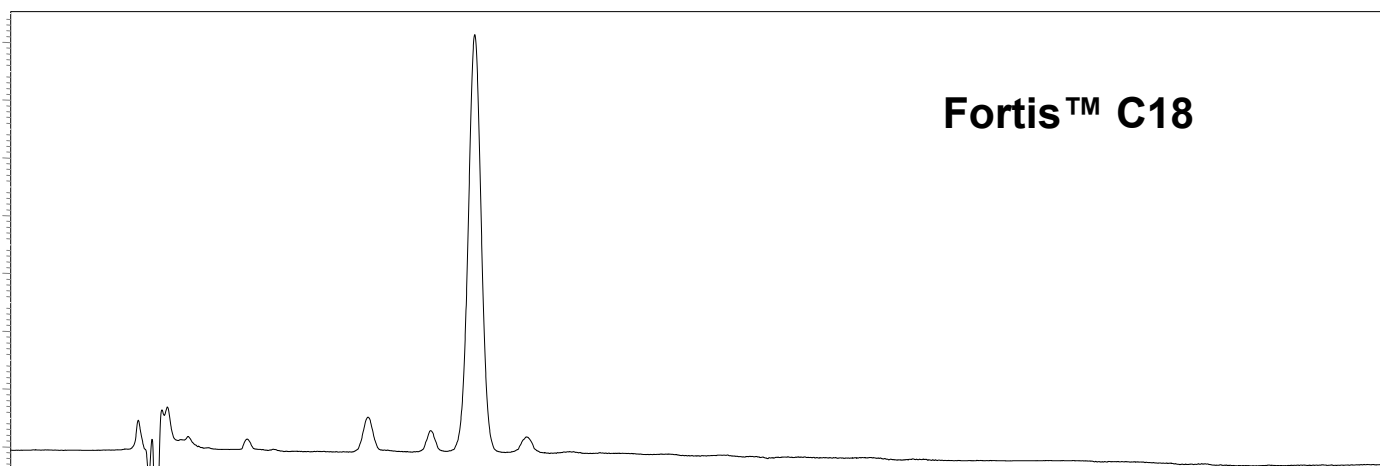
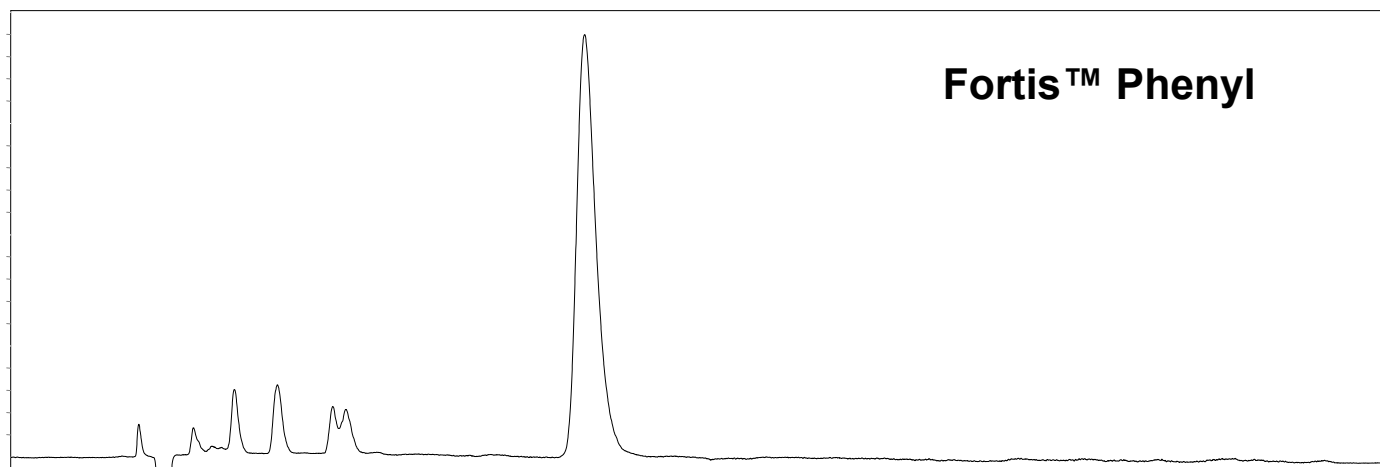


Both Columns 150x4.6mm 5um
70:30).1% Formic acid : MeOH

1ml/min 254nm



Selectivity



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

Minutes

Both Columns 150x4.6mm 5µm
20:80 20mm NH₄OAc : MeOH

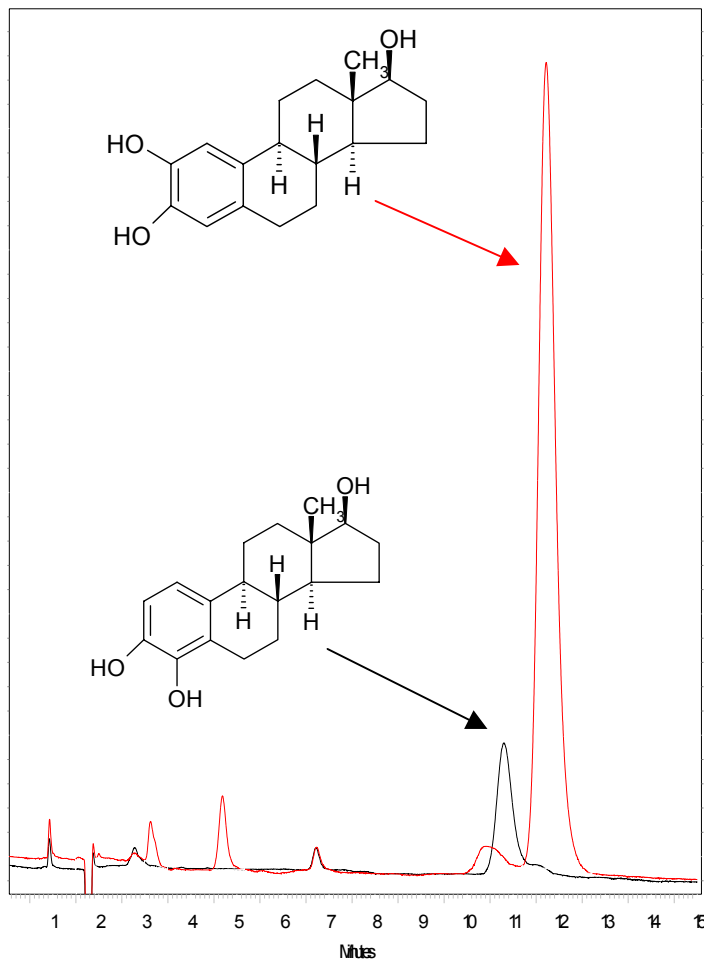
1ml/min

210nm



Positional Isomers

Steroids



- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
40 : 60 H₂O : MeOH

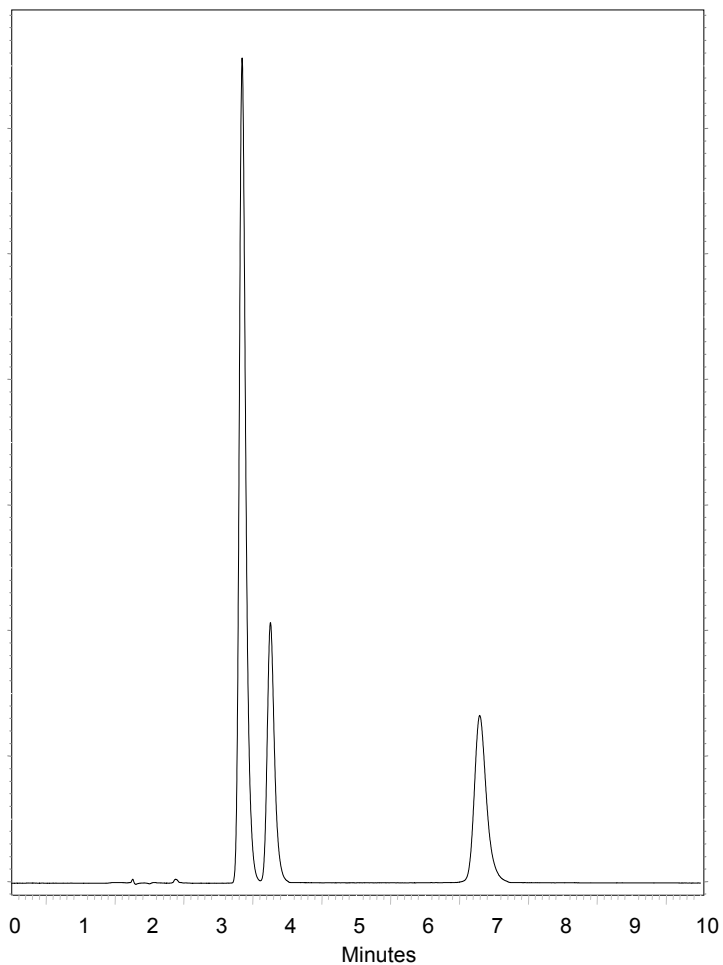
- Flow : **1ml/min**
- Temp : **20°C**
- λ : **210nm**

1. **4-Hydroxyestradiol (mw=288.38)**
2. **2-Hydroxyestradiol (mw=288.38)**



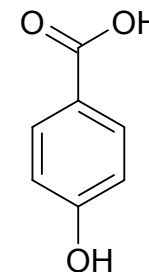
Positional Isomers

Hydroxybenzoic acids



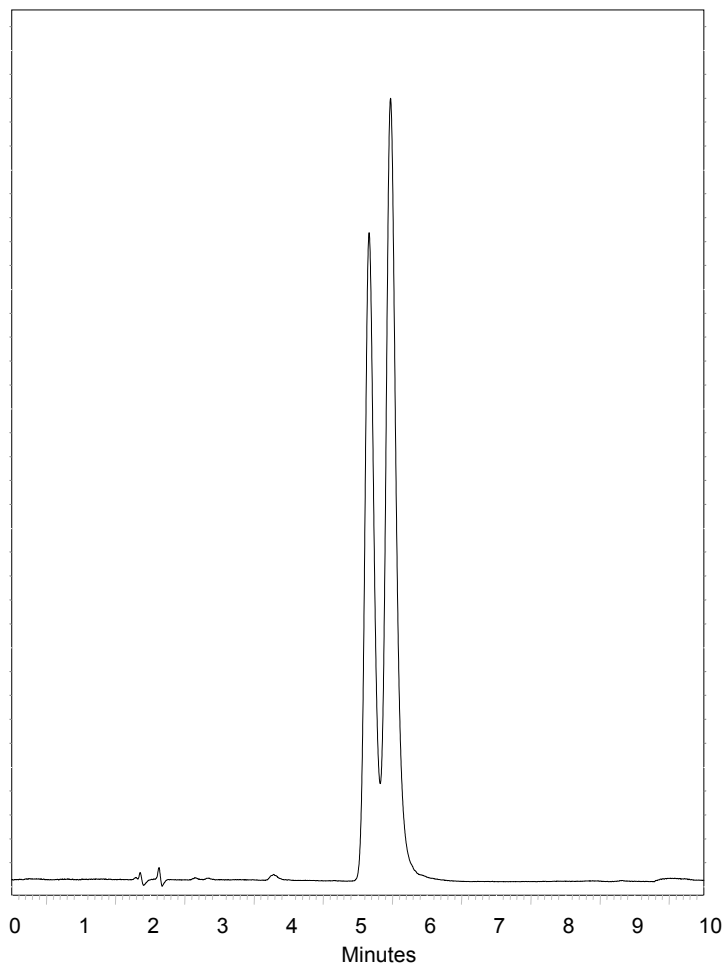
- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
**50:50 – H₂O + 0.1% formic acid
:MeOH**
- Flow : **1ml/min**
- Temp : **20°C**
- λ : **280nm**

1. **4-Hydroxybenzoic acid**
2. **3-Hydroxybenzoic acid**
3. **2-Hydroxybenzoic acid**





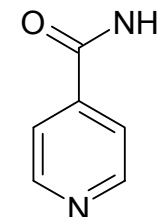
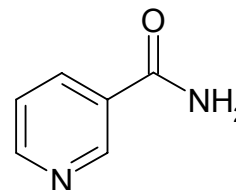
Positional Isomers Nicotinamides



- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
80:20 – 20mM NH₄OAc :MeOH

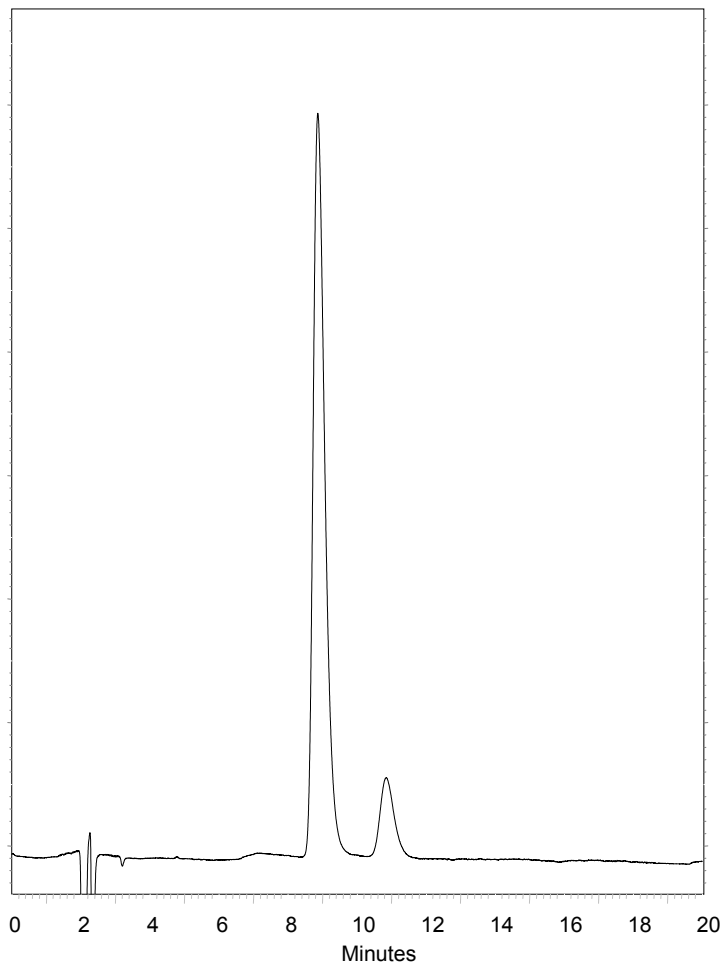
- Flow : **1ml/min**
- Temp : **20°C**
- λ : **254nm**

- 1. Isonicotinamide**
- 2. Nicotinamide**





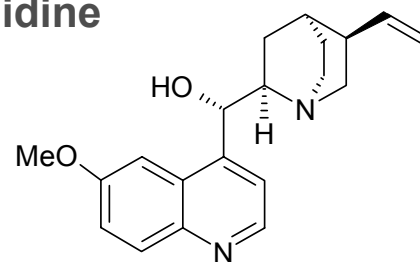
Quinidine



- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
**70:30 H₂O + 0.1% Formic acid :
MeOH**
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **235nm**

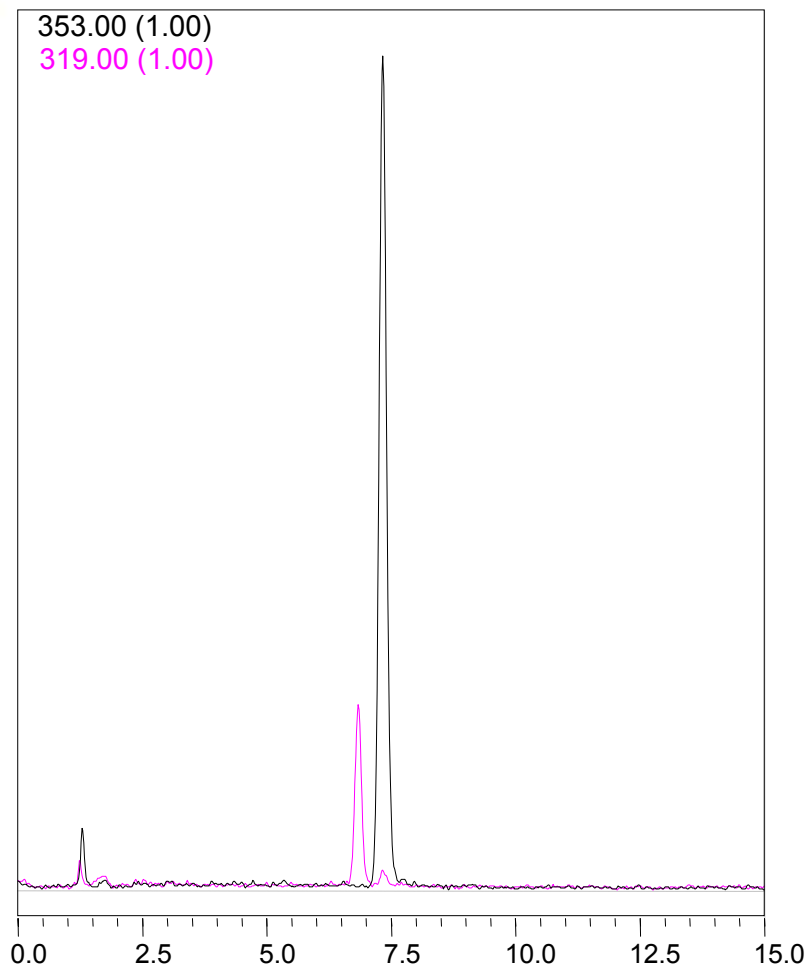
1. Quinidine

2. Dihydroquinidine



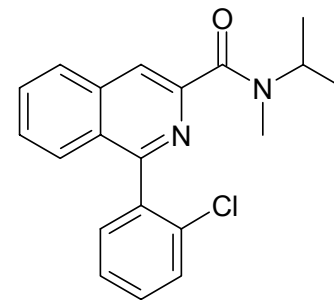


PK11195 – PET Tracer



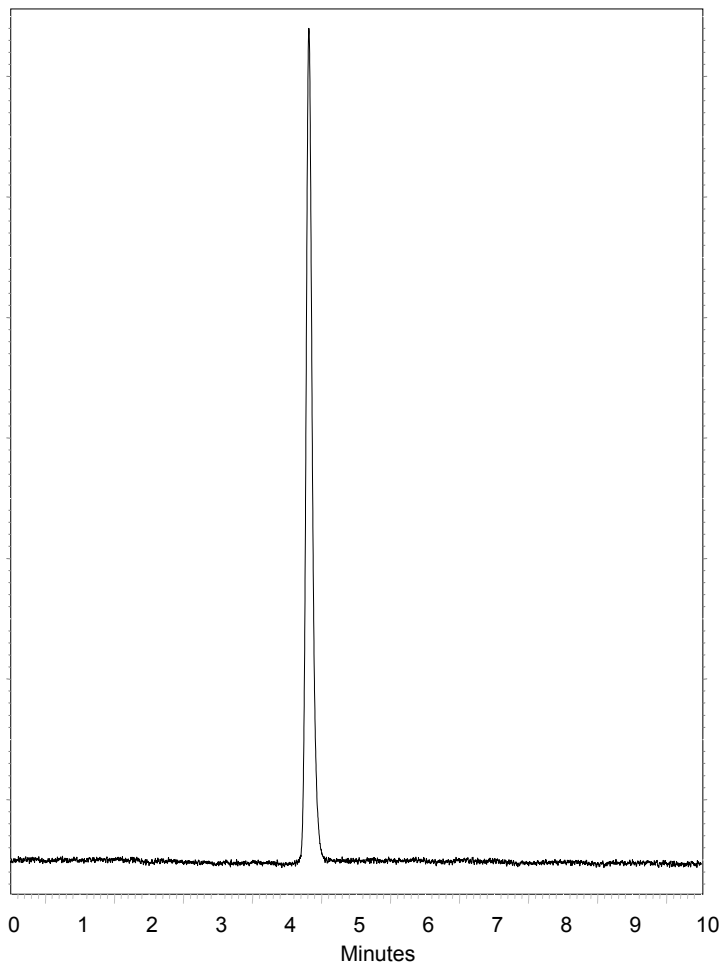
- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
60: 40 ACN : H2O
- Flow : **1ml/min**
- Temp :
- λ : **MS Detection**

- 1. De-chlorinated PK11195**
- 2. PK11195**





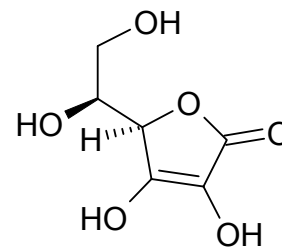
Vitamin C



- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
100% H₂O +0.1% Formic acid

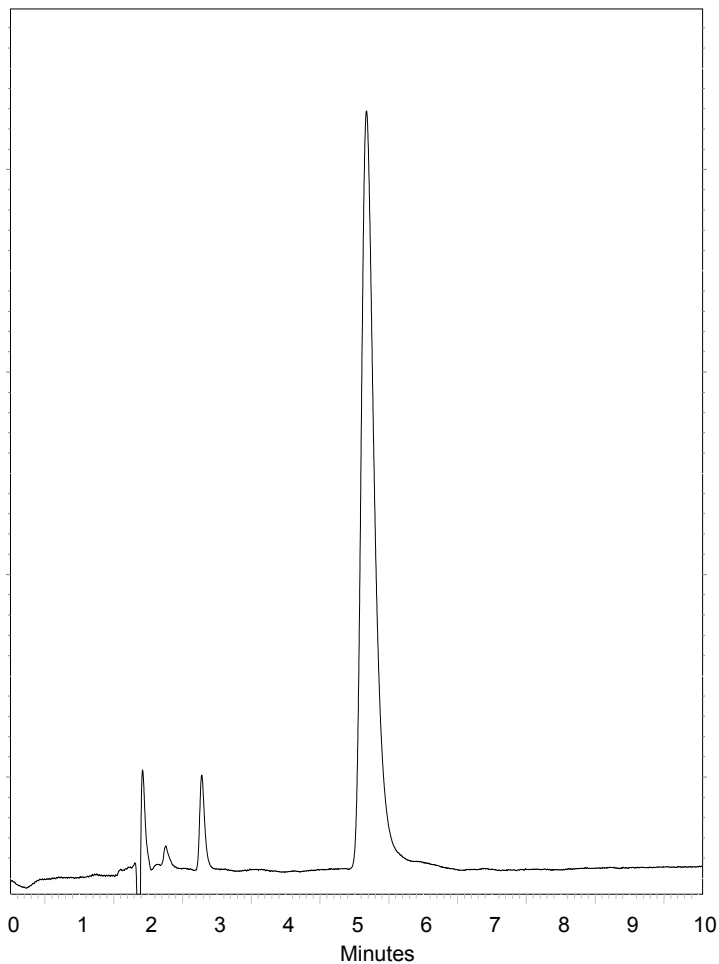
- Flow : **0.8ml/min**
- Temp : **25oC**
- λ : **254nm**

1. Vitamin C



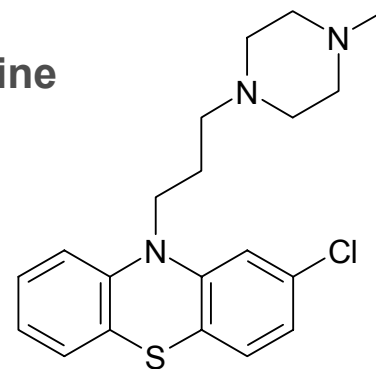


Stemetil



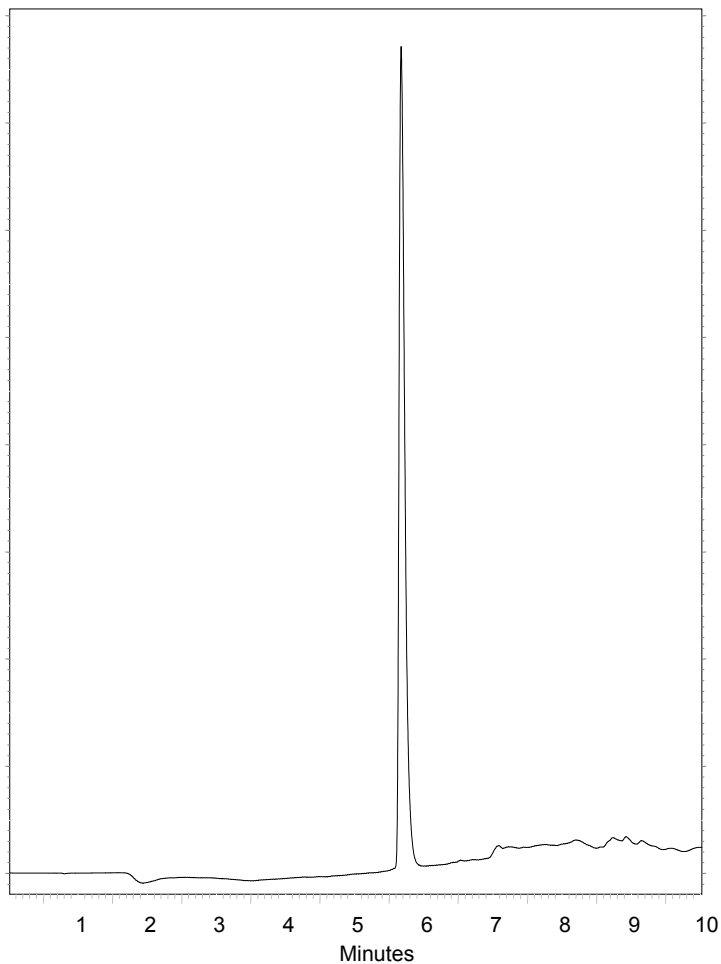
- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
**35:65 H₂O + 0.1% Formic acid :
MeOH**
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **254nm**

1. Prochlorperazine Maleate





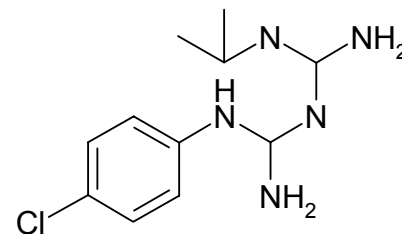
Paludrine



- Column : **Fortis Phenyl 50x4.6mm 5μ**
- p/n : **FPH-050305**
- Mobile Phase:
 - A – H₂O + 0.1% formic acid**
 - B – MeOH + 0.1% formic acid**
- Gradient: **10-90% in 10mins**

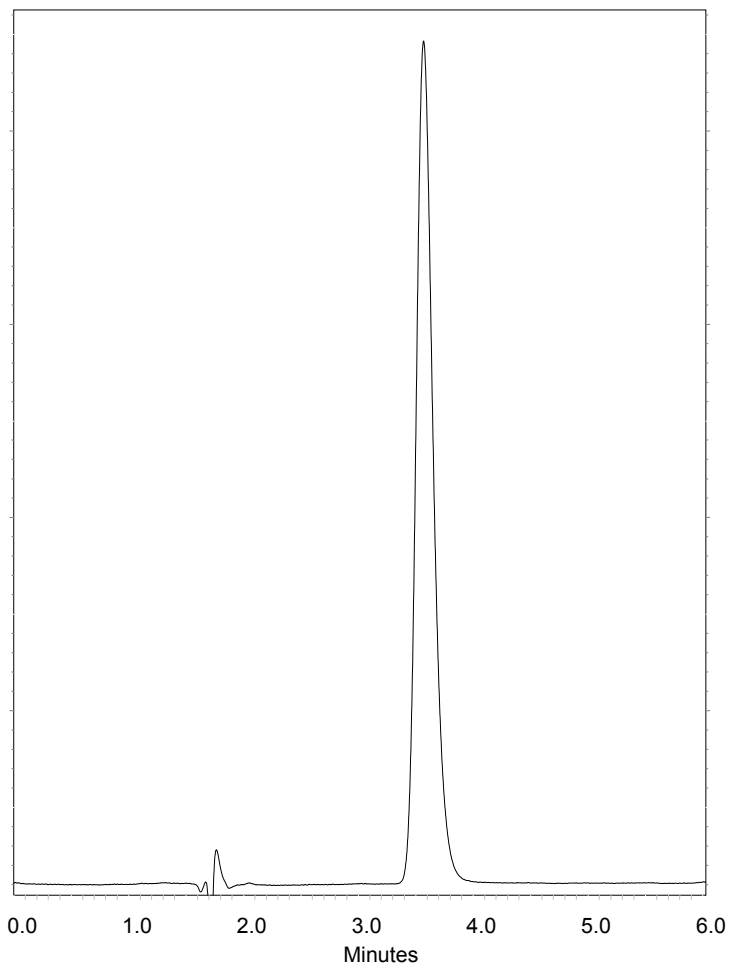
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **254nm**

1. Proguanil



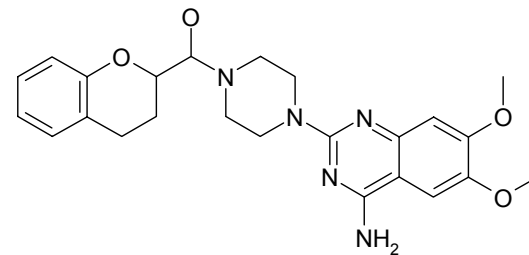


Doxazosin



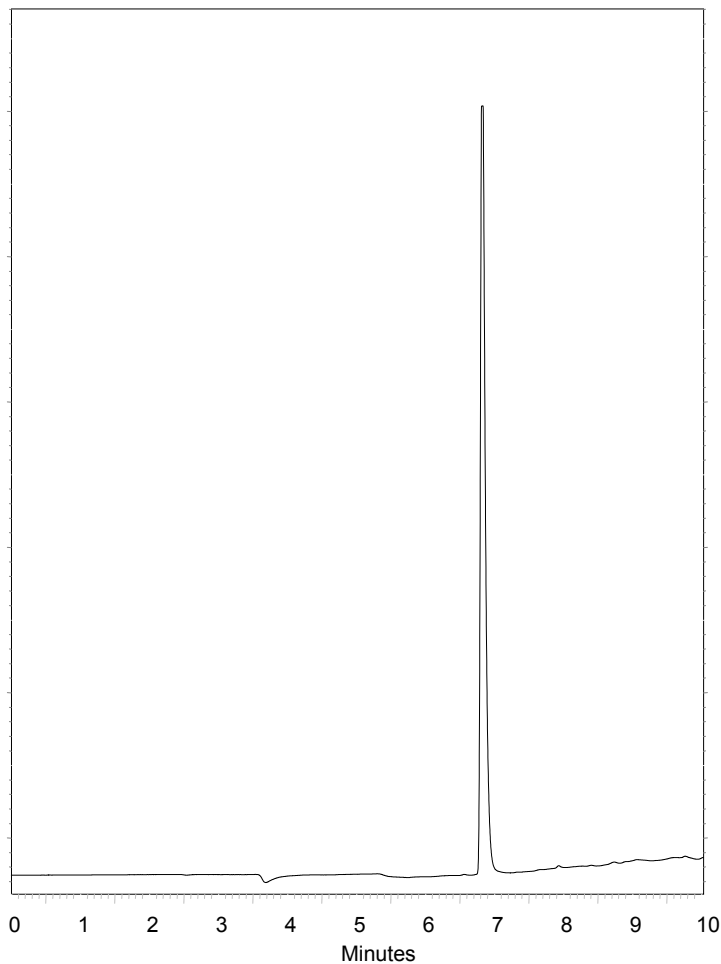
- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
**30:60 H₂O + 0.1% Formic acid :
MeOH**
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **254nm**

1. Doxazosin





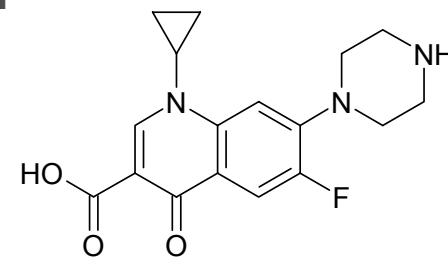
Ciprofloxacin



- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
 - A – H₂O + 0.1% formic acid**
 - B – MeOH + 0.1% formic acid**
- Gradient: **10-90% in 10mins**

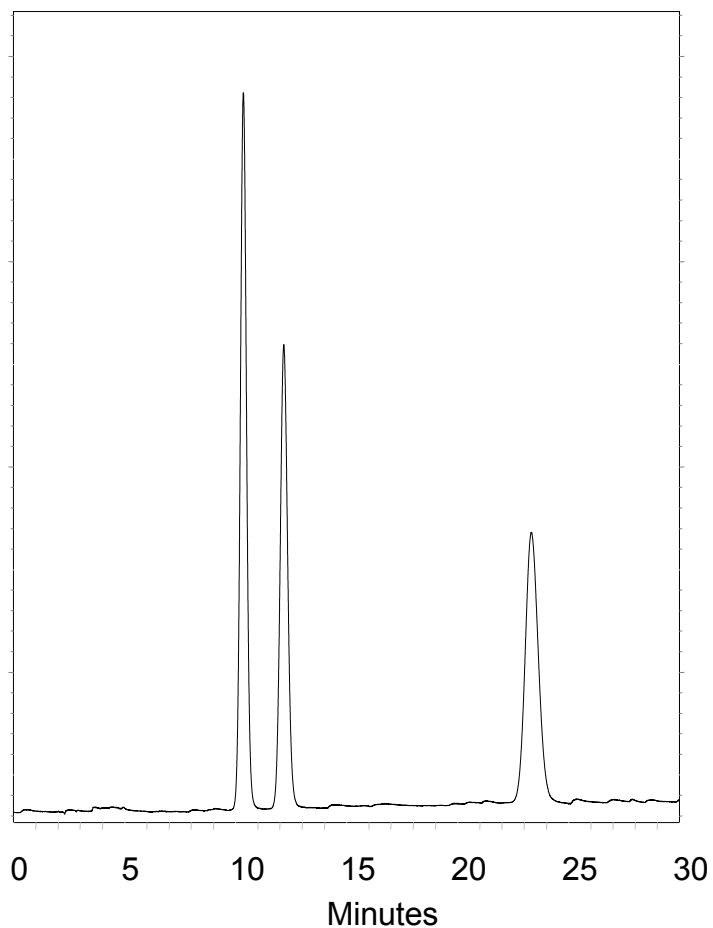
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **254nm**

1. Ciprofloxacin





Sulfa Drugs

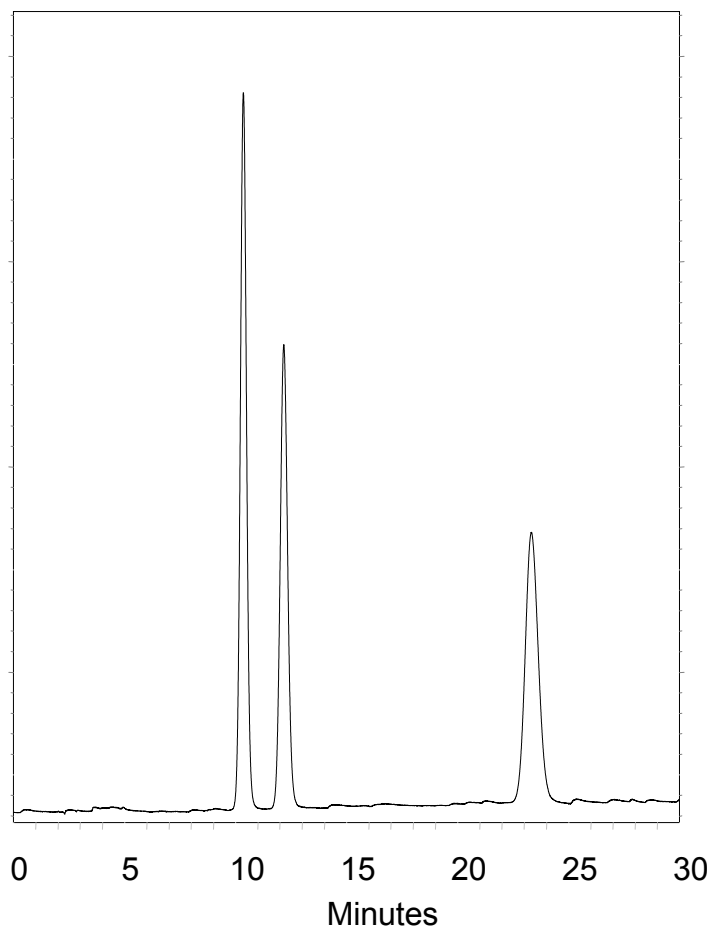


- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
**70 : 30 H₂O + 0.1% Formic acid :
MeOH**
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **254nm**

- 1. Sulfathiazole**
- 2. Sulfamerazine**
- 2. Sulfamethoxazole**



Benzodiazepines



- Column : **Fortis Phenyl 150x4.6mm 5 μ**
- p/n : **FPH-050705**
- Mobile Phase:
**50 : 50 H₂O + 0.1% Formic acid :
ACN**
- Flow : **1ml/min**
- Temp : **25oC**
- λ : **230nm**

- 1. Lorazepam**
- 2. Temazepam**
- 2. Diazepam**