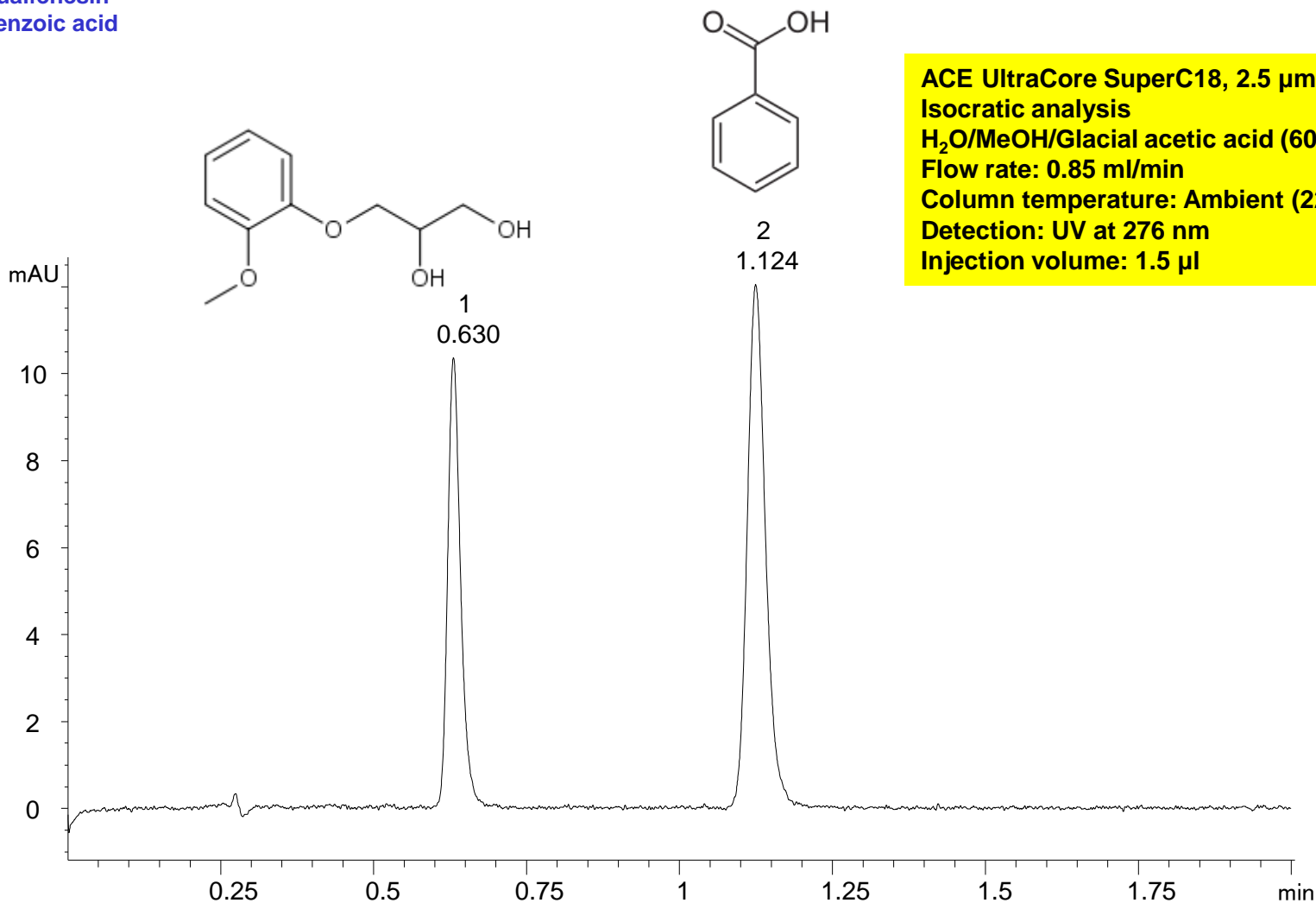


# USP Guaifenesin

**Key:**

- 1 Guaifenesin
- 2 Benzoic acid



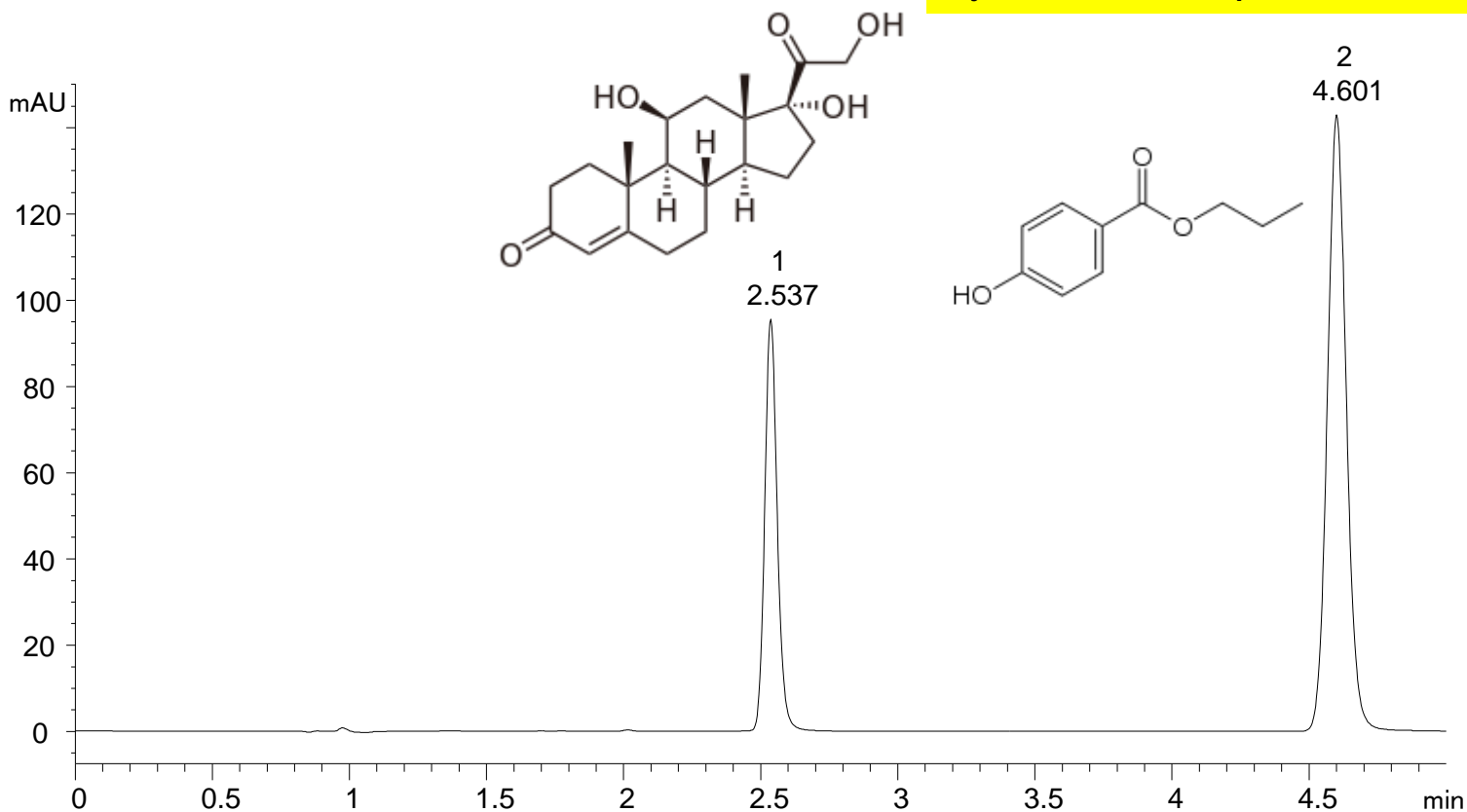


# USP Hydrocortisone

**Key:**

- 1 Hydrocortisone
- 2 Propylparaben

ACE Ultracore SuperC18, 2.5  $\mu$ m, 100 x 4.6 mm  
Isocratic analysis  
MeCN/MeOH/H<sub>2</sub>O (25:25:50 v/v)  
Flow rate: 1 ml/min  
Column temperature: Ambient (22°C)  
Detection: UV at 253 nm  
Injection volume: 5.8  $\mu$ l



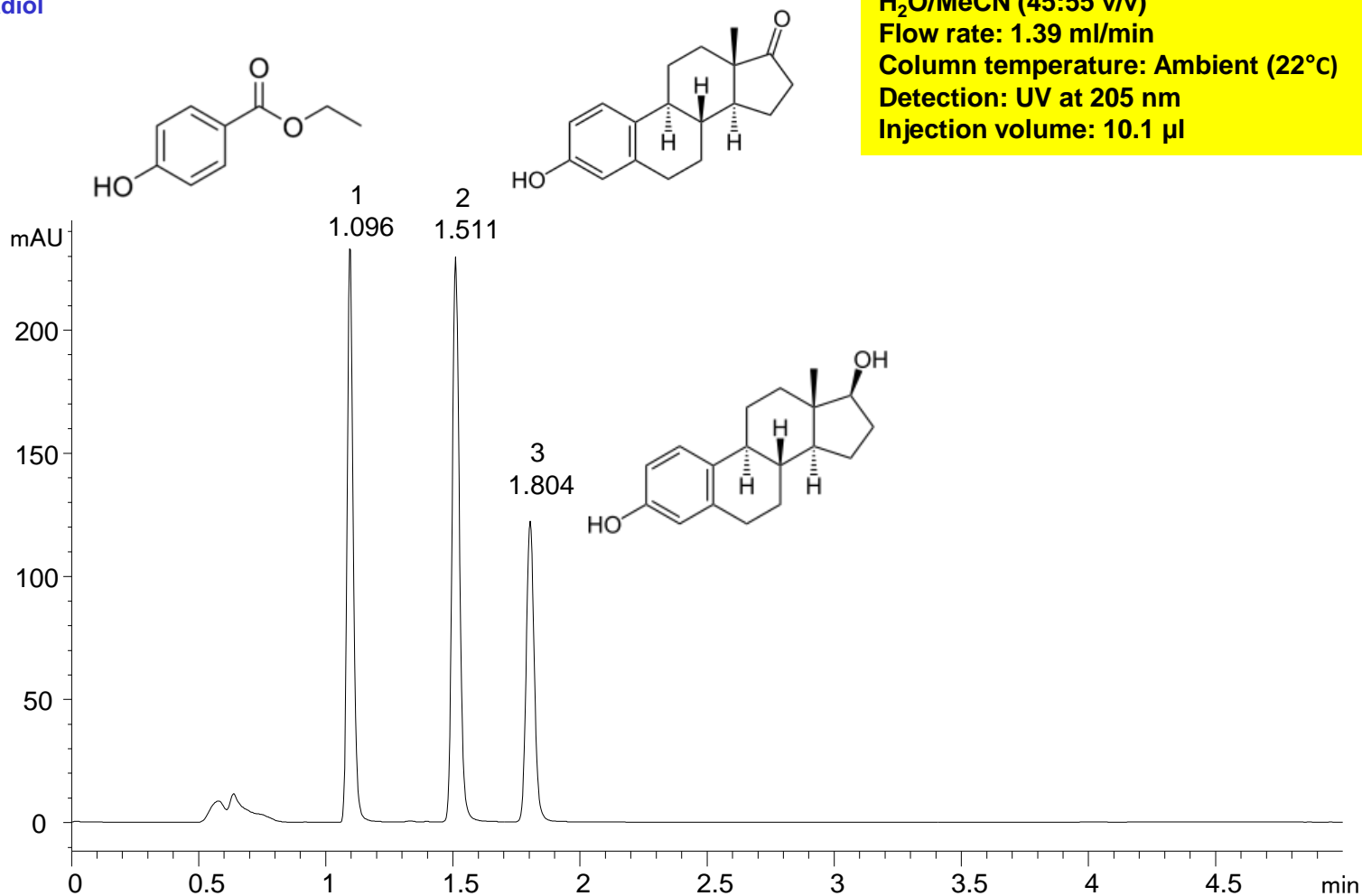


# USP Estradiol

## Key:

- 1 Ethylparaben
- 2 Estrone
- 3 Estradiol

ACE Ultracore SuperC18, 2.5  $\mu\text{m}$ , 100 x 4.6 mm  
Isocratic analysis  
 $\text{H}_2\text{O}/\text{MeCN}$  (45:55 v/v)  
Flow rate: 1.39 ml/min  
Column temperature: Ambient (22°C)  
Detection: UV at 205 nm  
Injection volume: 10.1  $\mu\text{l}$



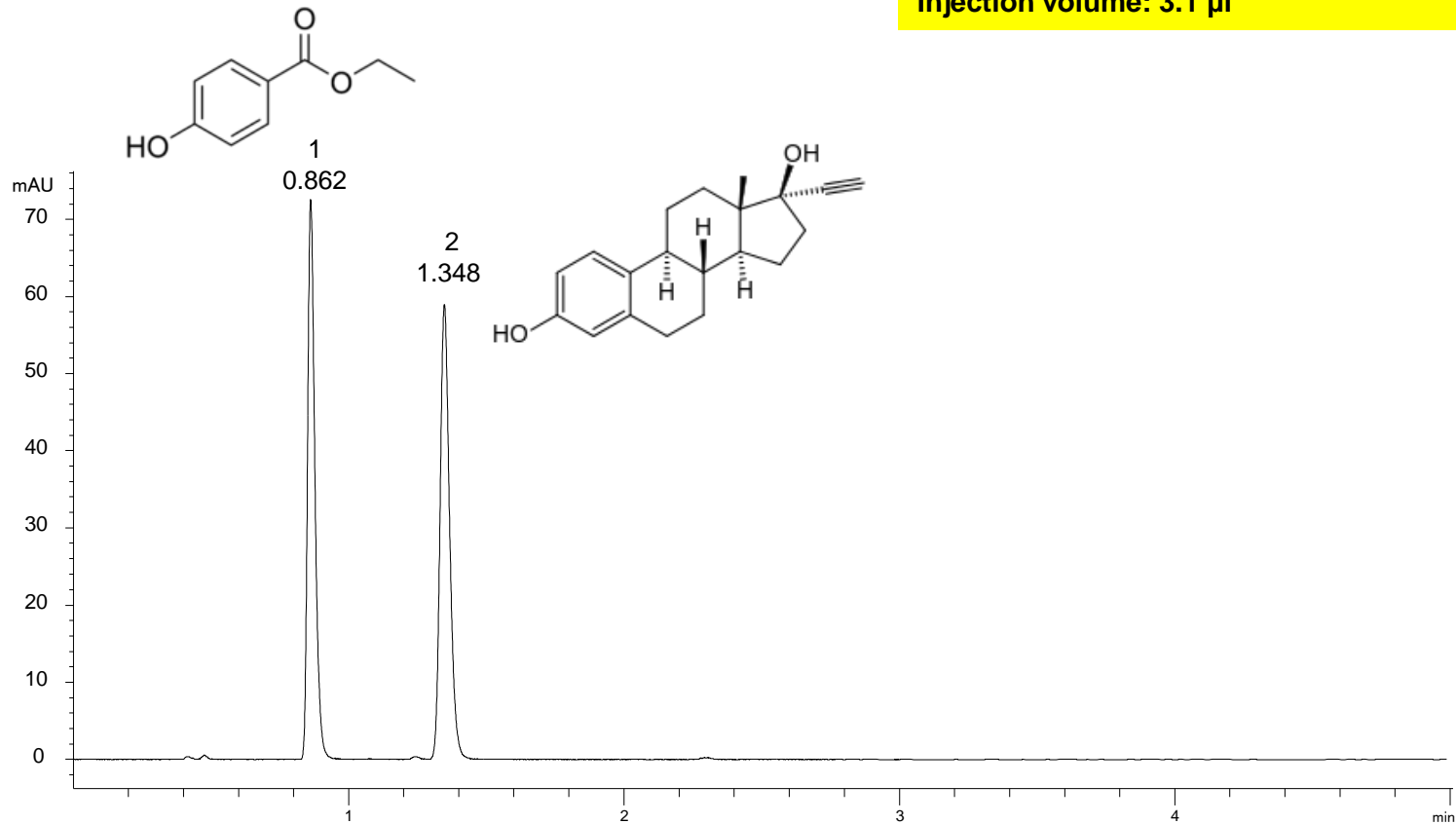


# USP 17 $\alpha$ -Ethinylestradiol

**Key:**

- 1 Ethylparaben
- 2 17 $\alpha$ -Ethinylestradiol

ACE Ultracore SuperC18, 2.5  $\mu$ m, 50 x 3.0 mm  
Isocratic analysis  
MeCN/H<sub>2</sub>O (50:50 v/v)  
Flow rate: 0.43 ml/min  
Column temperature: Ambient (22°C)  
Detection: UV at 280 nm  
Injection volume: 3.1  $\mu$ l

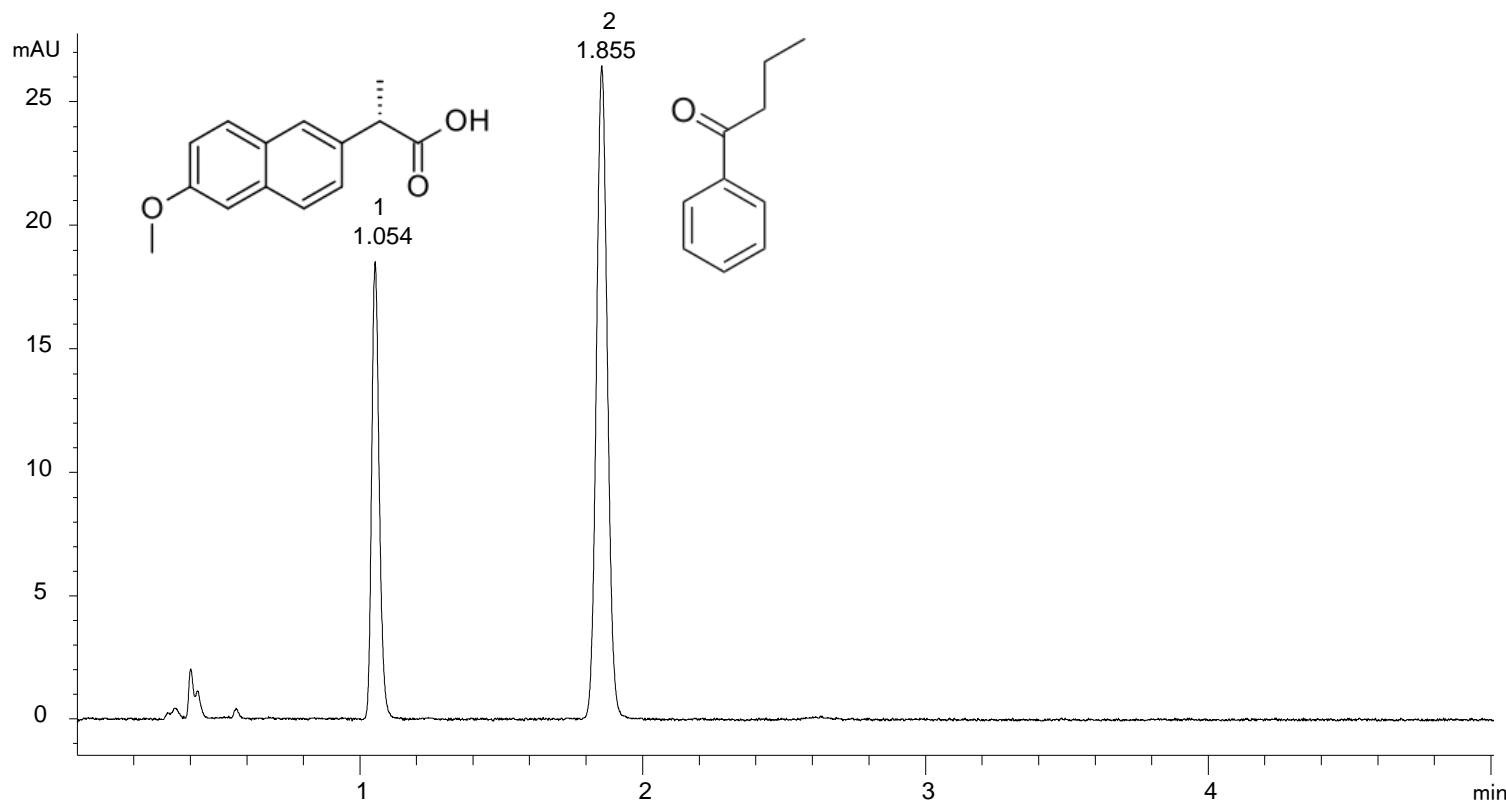


# USP Naproxen

**Key:**

- 1 Naproxen
- 2 Butyrophenone

**ACE Ultracore SuperC18, 2.5 µm, 50 x 3.0 mm**  
**Isocratic analysis**  
**H<sub>2</sub>O with glacial acetic acid (49:1)/MeCN (50:50 v/v)**  
**Flow rate: 0.51 ml/min**  
**Column temperature: Ambient (22°C)**  
**Detection: UV at 254 nm**  
**Injection volume: 2.8 µl**

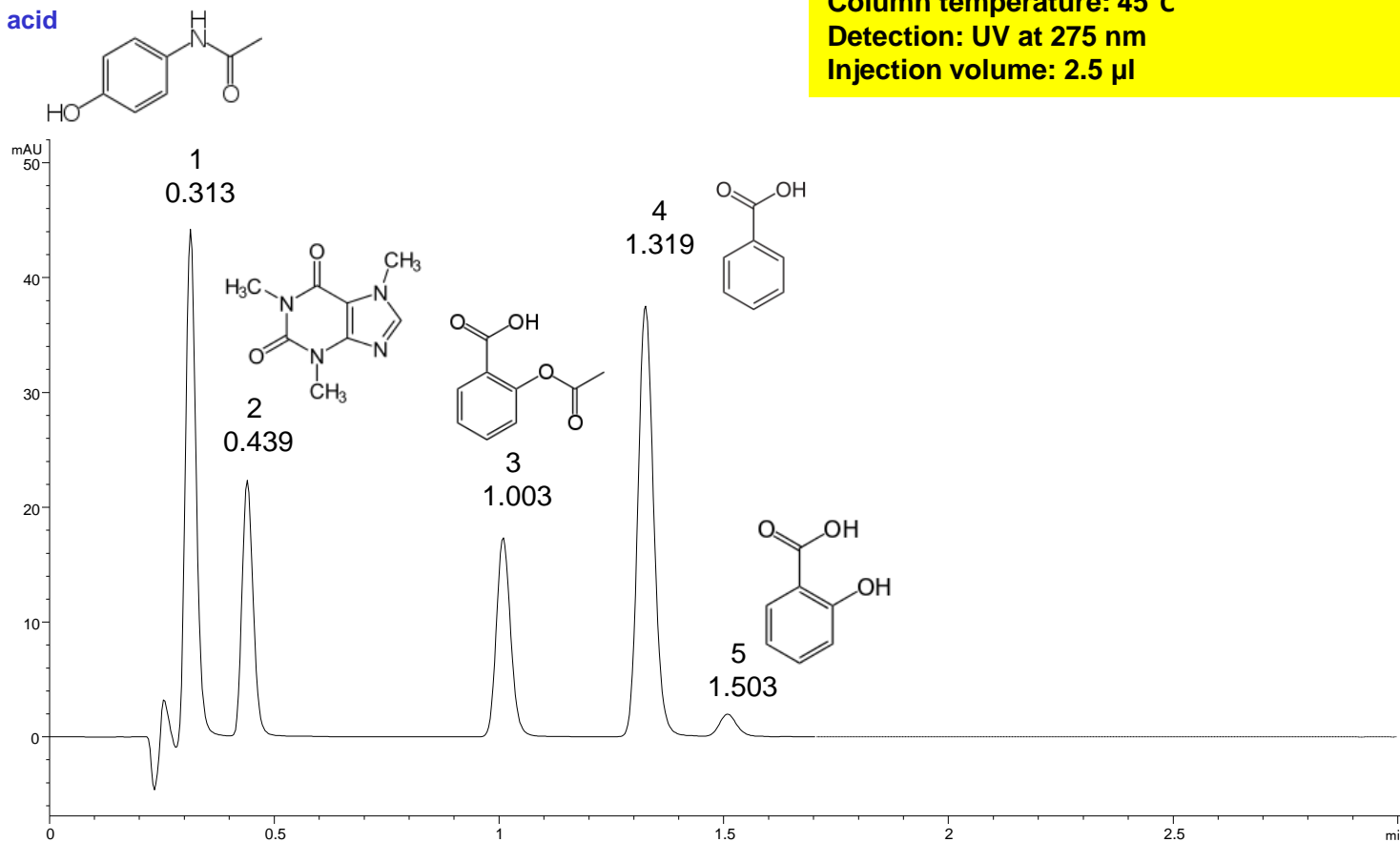


# USP Paracetamol / Aspirin / Caffeine

**Key:**

- 1 Paracetamol
- 2 Caffeine
- 3 Aspirin
- 4 Benzoic acid
- 5 Salicylic acid

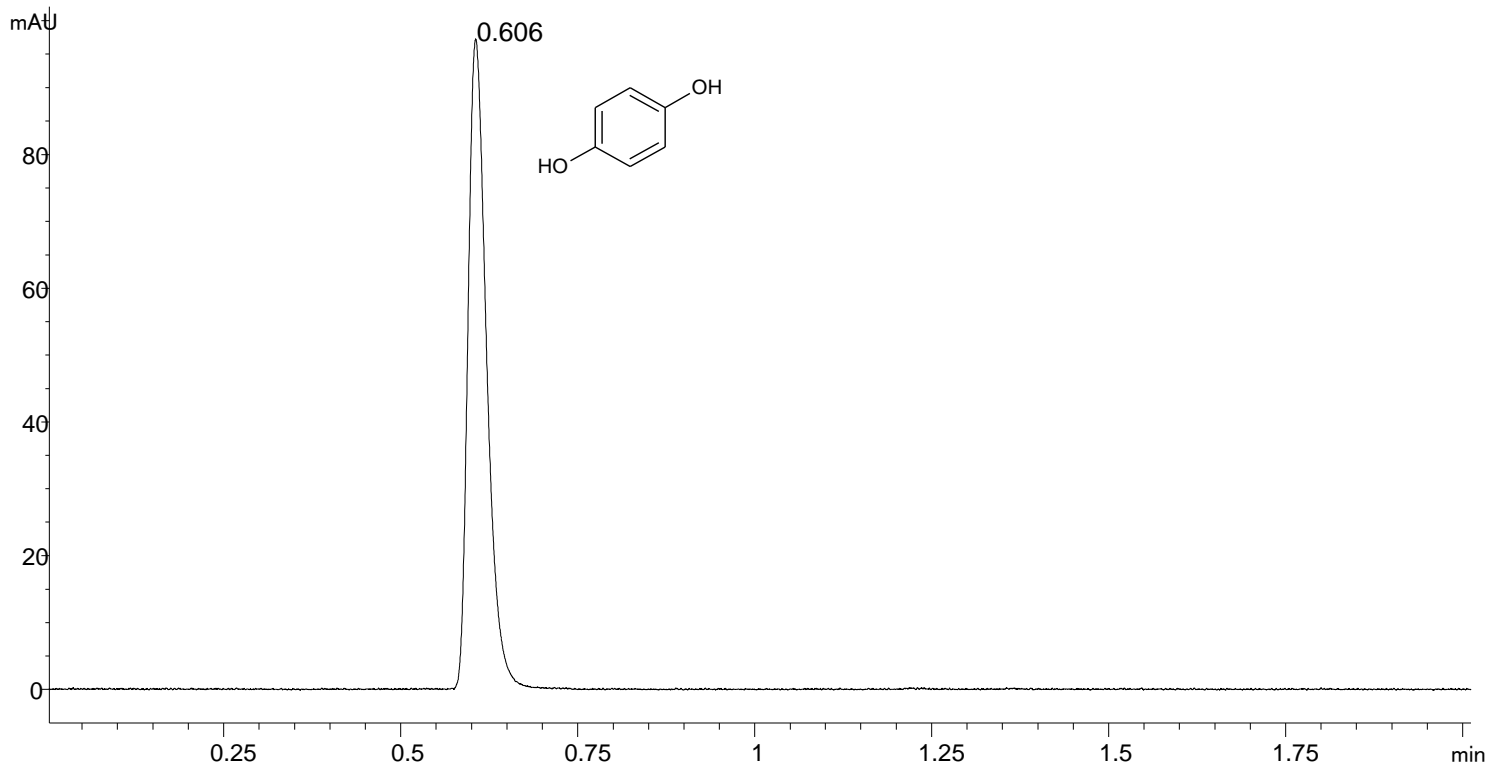
ACE Ultracore SuperC18, 2.5 µm, 50 x 4.6 mm  
 Isocratic analysis  
 H<sub>2</sub>O with glacial acetic acid (69:3)/MeOH (72:28 v/v)  
 Flow rate: 2 ml/min  
 Column temperature: 45°C  
 Detection: UV at 275 nm  
 Injection volume: 2.5 µl



# USP Hydroquinone

Key:  
1 Hydroquinone

ACE Excel C18, 2 µm, 50 x 3.0 mm  
Isocratic analysis  
H<sub>2</sub>O/MeOH (45:55 v/v)  
Flow rate: 0.45 ml/min  
Column temperature: Ambient (22°C)  
Detection: UV at 280 nm  
Injection volume: 0.9 µl

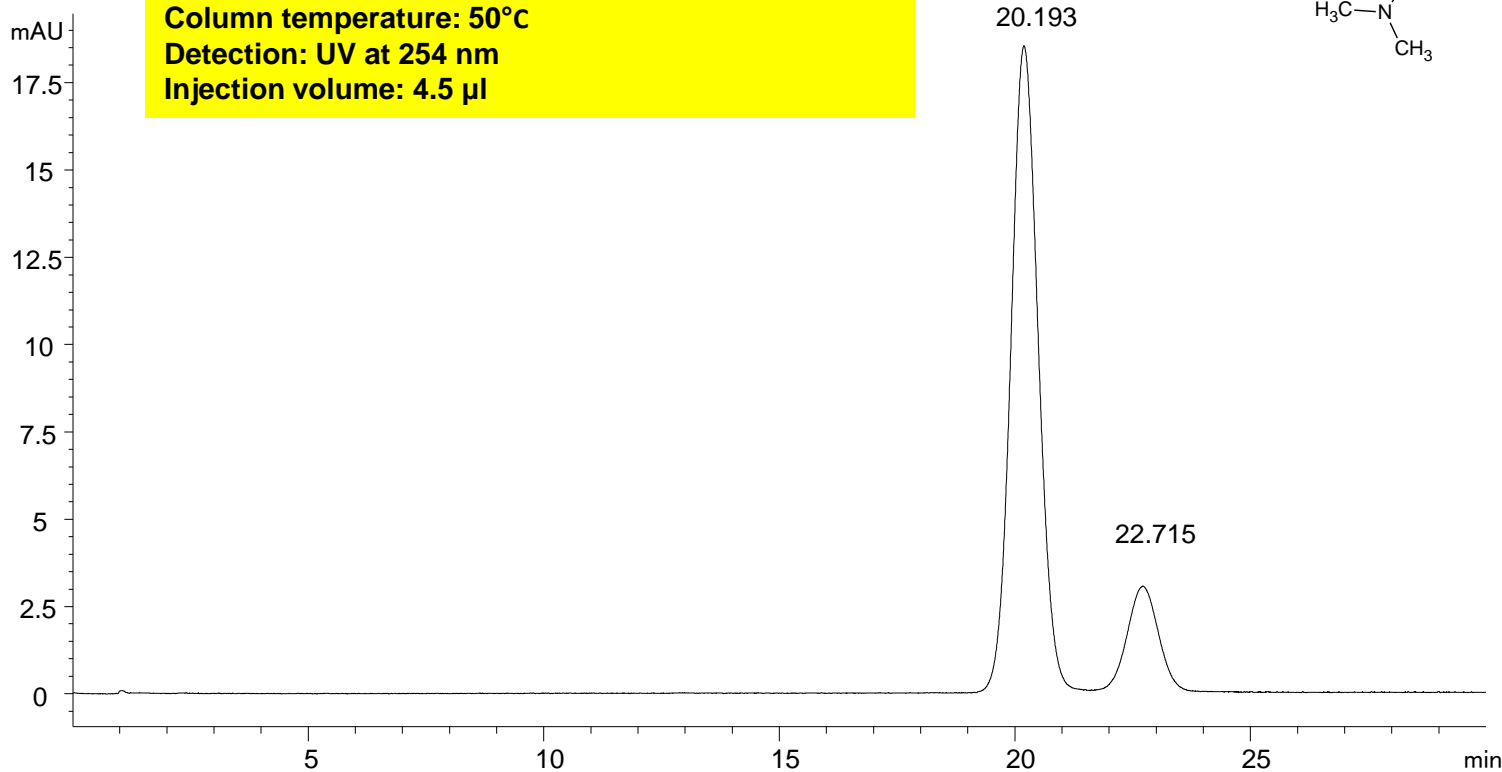
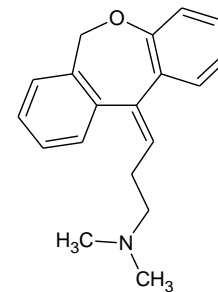


# USP Doxepin

**Key:**

- 1 Doxepin isomer
- 2 Doxepin isomer

**ACE C8, 3 μm, 50 x 4.6 mm**  
**Isocratic analysis**  
**0.2 M Monobasic NaH<sub>2</sub>PO<sub>4</sub> in water pH 2.5:MeOH**  
**(30:70 v/v)**  
**Flow rate: 0.56 ml/min**  
**Column temperature: 50°C**  
**Detection: UV at 254 nm**  
**Injection volume: 4.5 μl**



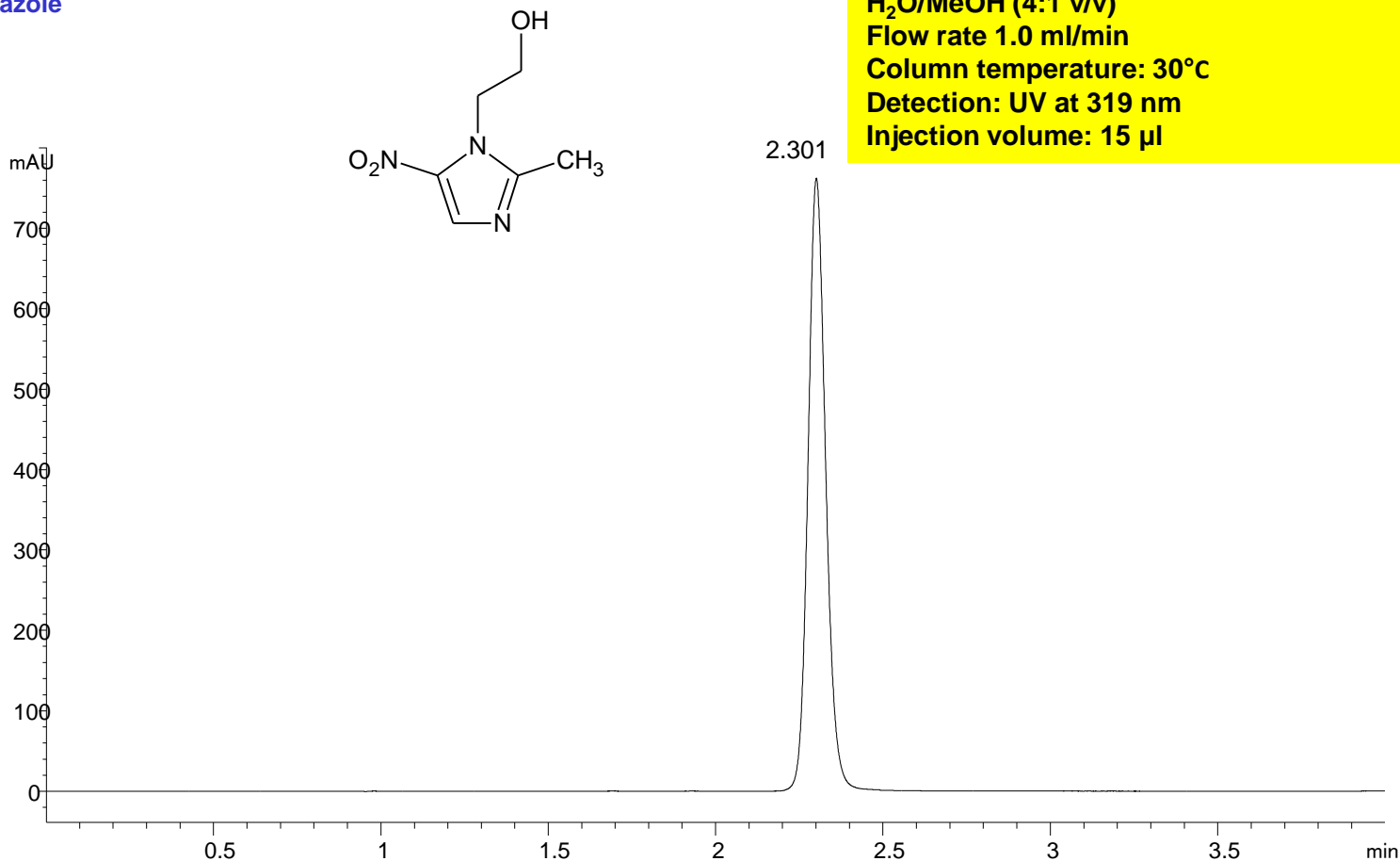




# USP Metronidazole

Key:

1 Metronidazole



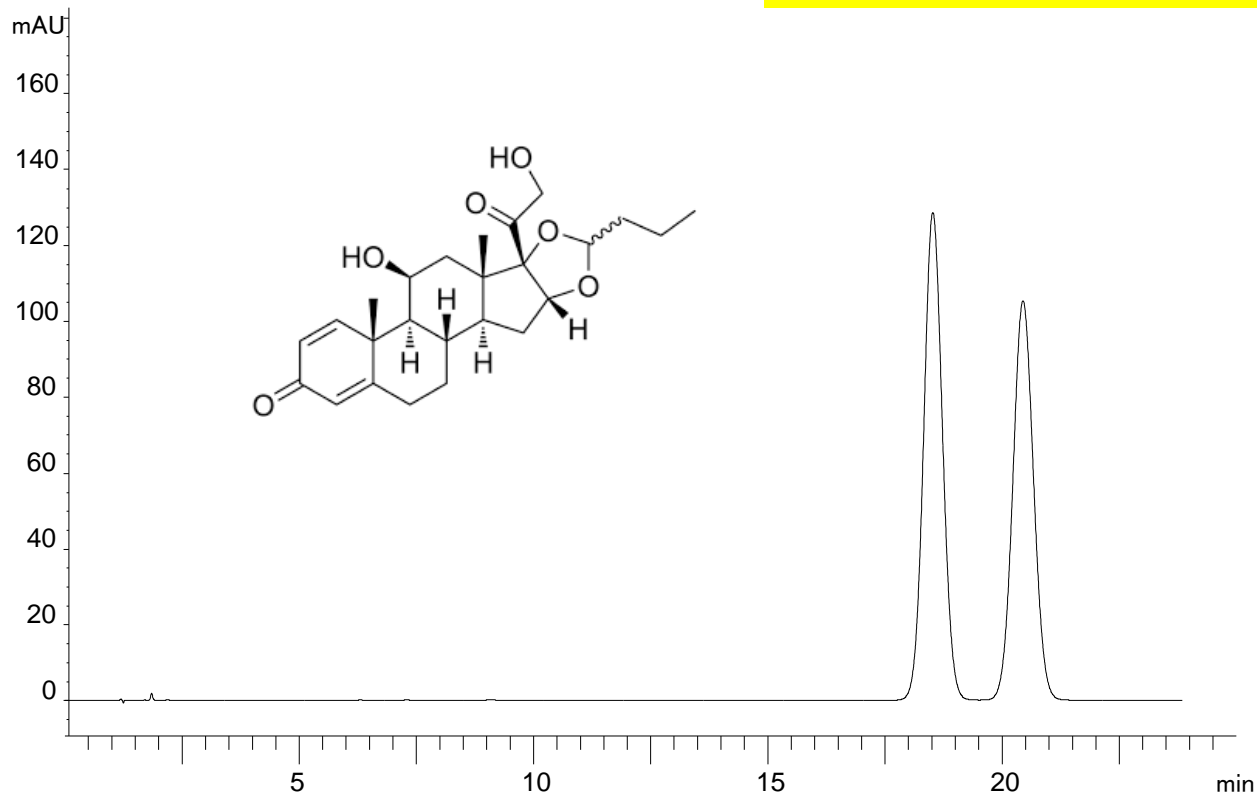


# USP Budesonide

**Key:**

- 1 Budesonide B
- 2 Budesonide A

**ACE C18, 5 µm, 150 x 4.6 mm**  
**Isocratic analysis**  
**18 mM monobasic sodium phosphate pH 3.2 in H<sub>2</sub>O/MeCN (68:32 v/v)**  
**Flow rate 1.5 ml/min**  
**Column temperature: Ambient (22 °C)**  
**Detection: UV at 254 nm**  
**Injection volume: 20 µl**

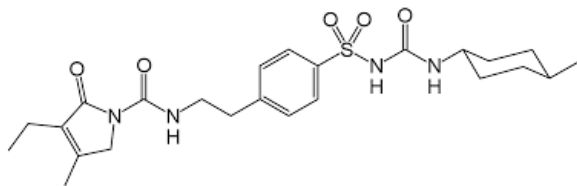
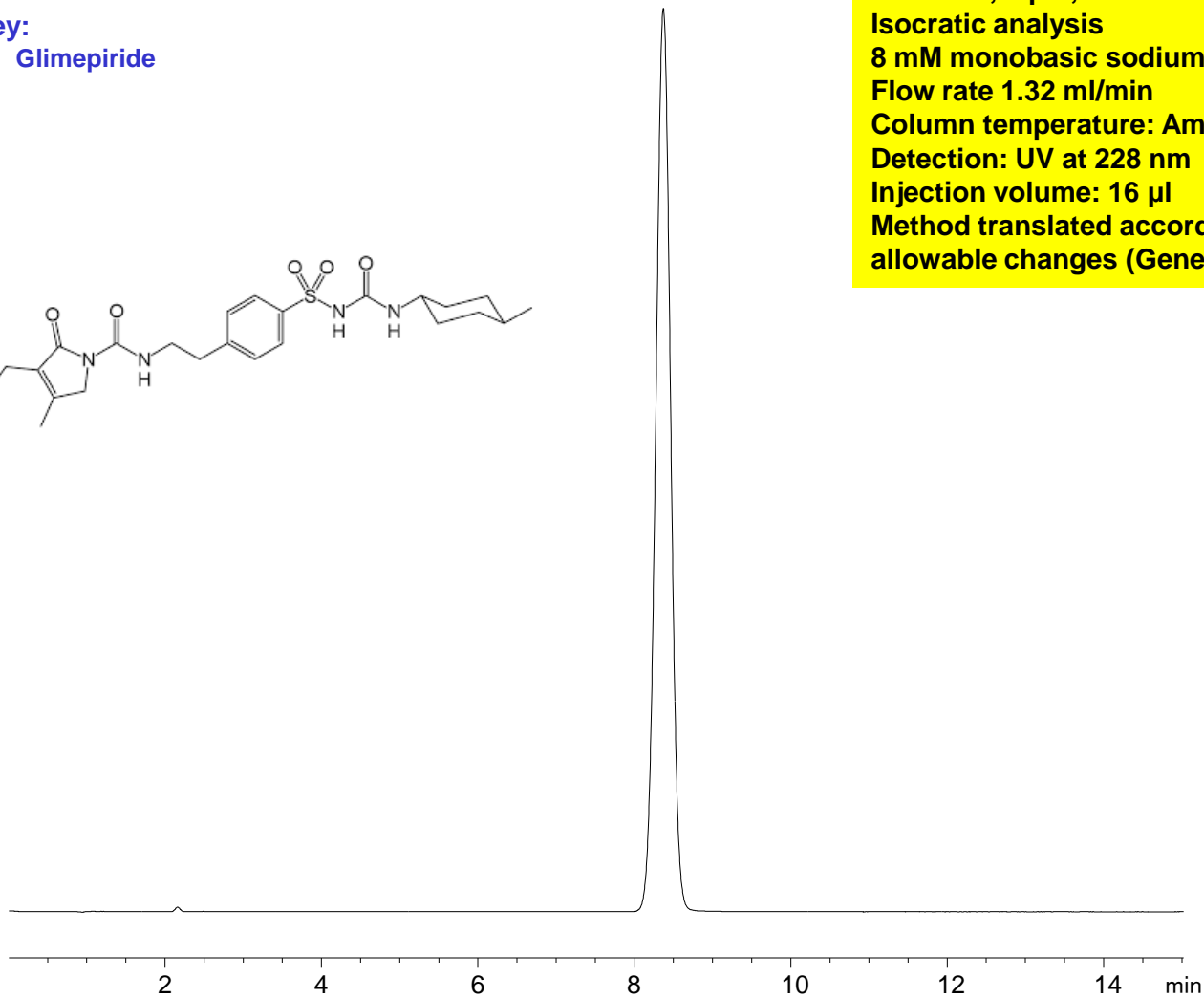




# USP Glimepiride

**Key:**

1 Glimepiride

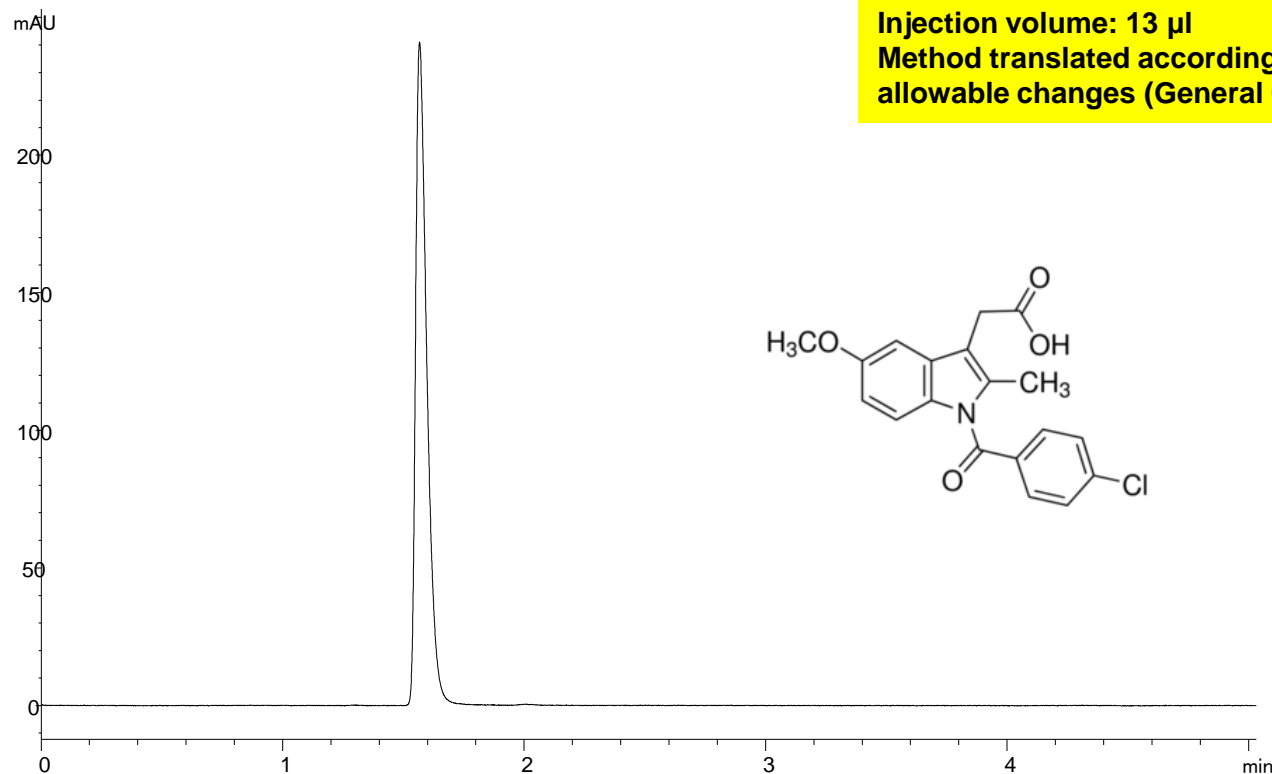
**ACE C18, 5  $\mu$ m, 150 x 4.6 mm****Isocratic analysis****8 mM monobasic sodium phosphate pH 2.4 :MeCN (1:1 v/v)****Flow rate 1.32 ml/min****Column temperature: Ambient (22 °C)****Detection: UV at 228 nm****Injection volume: 16  $\mu$ l****Method translated according to USP guidelines for allowable changes (General Chapter <621>)**



# USP Indomethacin

**Key:**

1 Indomethacin

**ACE C18, 5  $\mu$ m, 150 x 4.6 mm****Isocratic analysis****0.01M monobasic sodium phosphate and 0.01M dibasic sodium phosphate in MeCN:water 1:1 v/v****Flow rate 1.32 ml/min****Column temperature: Ambient (22 °C)****Detection: UV at 254 nm****Injection volume: 13  $\mu$ l****Method translated according to USP guidelines for allowable changes (General Chapter <621>)**