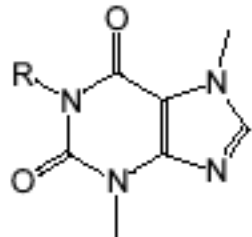


Antiasthmatic Drugs



Theobromine

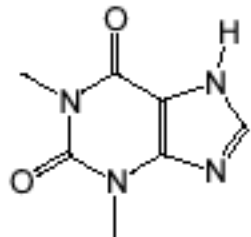
R=H

Caffeine

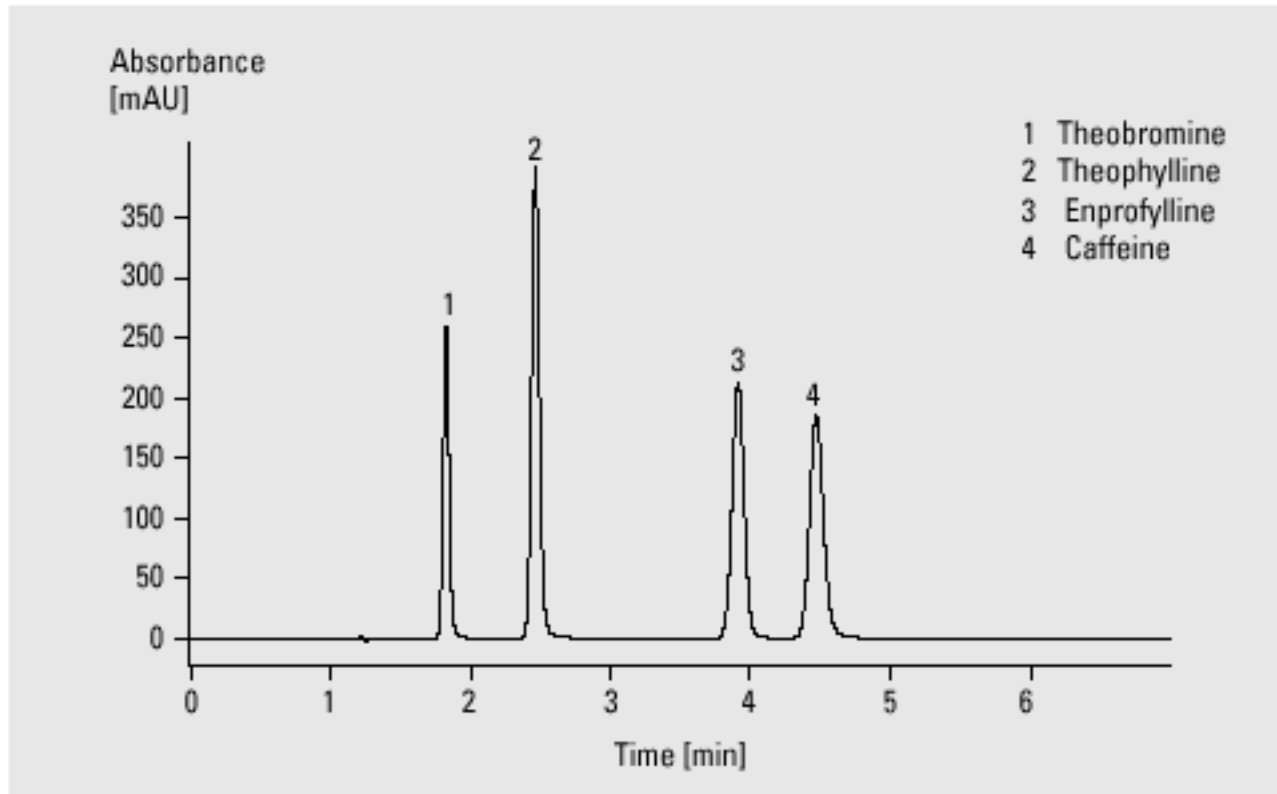
R=CH₃

Enprofylline

R=C₂H₅



Theophylline



Analysis of antiasthmatic drugs

HPLC method performance

Limit of detection 0.1 mg/l (5- μ l injection), S/N=2

Precision of RT
10 runs, 100 mg/l < 0.1 %

Precision of area
10 runs, 100 mg/l < 0.3 %

Column 4 x 125 mm Hypersil ODS, 5 μ m
Mobile phase A = water, B = acetonitrile
Flow rate 1.0 ml/min
Isocratic at 0 min 8 % B
at 7 min 8 % B

UV detector variable wavelength detector
270 nm, standard cell

Column compartment temperature 50 °C
Stop time 7 min
Injection volume 5 μ l