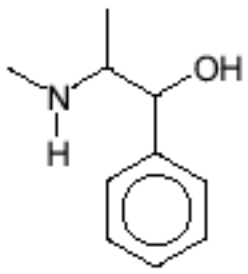
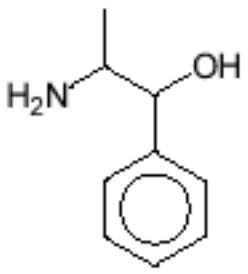
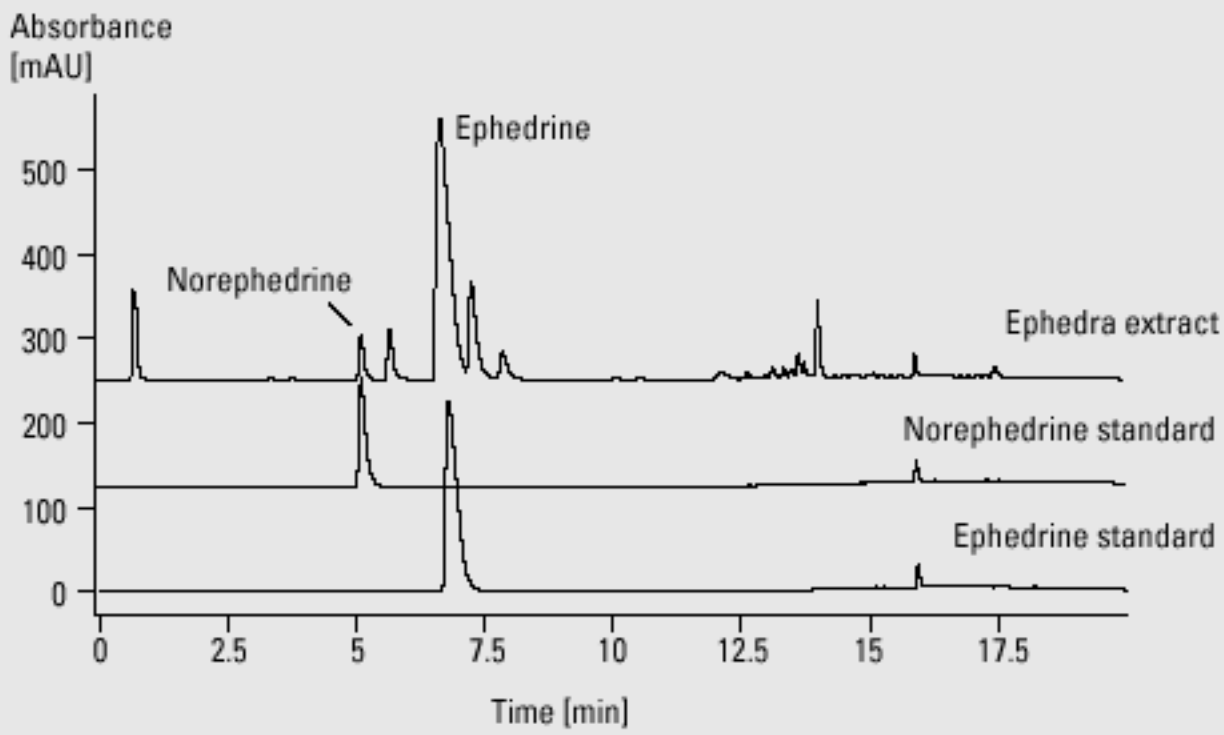
Ephedra Sinica Stapf Extract



Ephedrine



Norephedrine



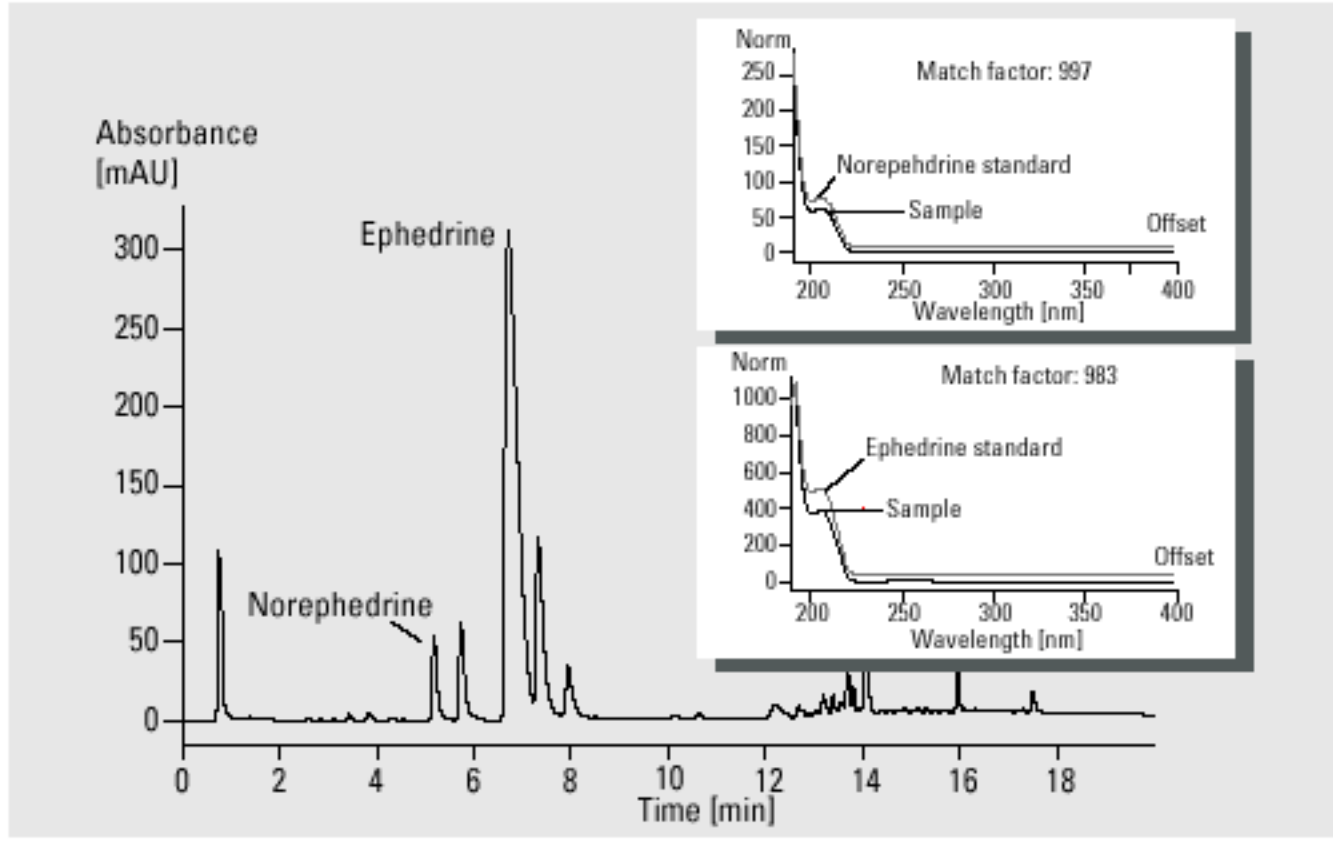
Analysis of *Ephedra Sinica Stapf* extract

Extraction

50 ml of 0.5 M H_2SO_4 was added to 1 g dried plant and the mixture was stirred overnight. After filtration the pH was adjusted to 11-13 by adding 6 M NaOH. 8 g NaCl were added and the mixture extracted with ether (4 x 25 ml). The organic layer was dried over $MgSO_4$, filtered and the solvent was removed *i. vac.* 5 ml H_2O and 3 drops of 4 M HCl were added to the residue.

Instrumentation:
see configuration example 2 on page 77

Column	4.6 x 75 mm Zorbax SB-C18, 3.5 µm
Mobile phase	A = 0.025 M KH_2PO_4 in water (pH = 3), B = acetonitrile
Flow rate	1.0 ml/min
Gradient	at 0 min 2 % B at 10 min 10 % B
Column wash	at 15 min 80 % B at 18 min 80 % B at 20 min 2 % B
UV detector	variable wavelength detector 204 nm, standard cell
Column compartment temperature	25 °C
Stop time	20 min
Post time	5 min
Injection volume	5 µl



Comparison of sample and standard spectra of norephedrine and ephedrine