

Yanhusuo (*Rhizoma Corydalis*) – 延胡索

Sample source

Commercially available Yanhusuo

Chemical reference substances

Tetrahydropalmatine (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 0726-200208)

Preparation of test solution

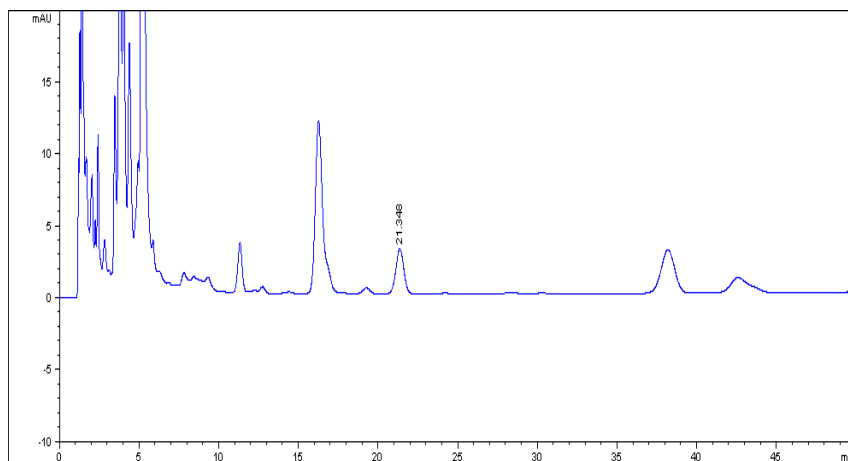
Accurately weigh 0.5 g of the powder in a flat-bottomed flask, accurately add 50 mL of a mixture of strong ammonia TS and methanol (1:20), weigh, allow to soak for 1 hour and then heat under reflux for 1 hour, allow to cool and weigh again, replenish the lost solvent with the above mixture, mix well and filter. Evaporate accurately 25 mL of the successive filtrate to dryness, dissolve the residue in methanol, transfer to a 5 mL volumetric flask, dilute with methanol to volume and mix well. Filter and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 μm (883975-902)
- Column temperature: 25 °C
- Mobile phase: methanol-0.1 % phosphoric acid (adjust to pH 6.5 with triethylamine) (55:45)
- Detector wavelength: 280 nm
- Flow rate: 1.0 mL/min
- Injection volume: 5 μL

Chromatographic system

- Agilent 1200 Series quaternary pump with vacuum degasser
- Agilent 1200 Series high-performance autosampler
- Agilent 1200 Series thermostated column compartment
- Agilent 1200 Series diode-array detector
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T _r
tetrahydropalmatine	16.790	21.348	3.08	105.0	9102	0.997