

Fourstamen Stephania Root (*Radix Stephaniae Tetrandrae*) – 防己

Sample source

Commercially available Fourstamen Stephania Root

Chemical reference substances

1. Fanchinoline, 2. Tetrandrine
(National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1. 110793-200003, 2. 110711-200205)

Preparation of test solution

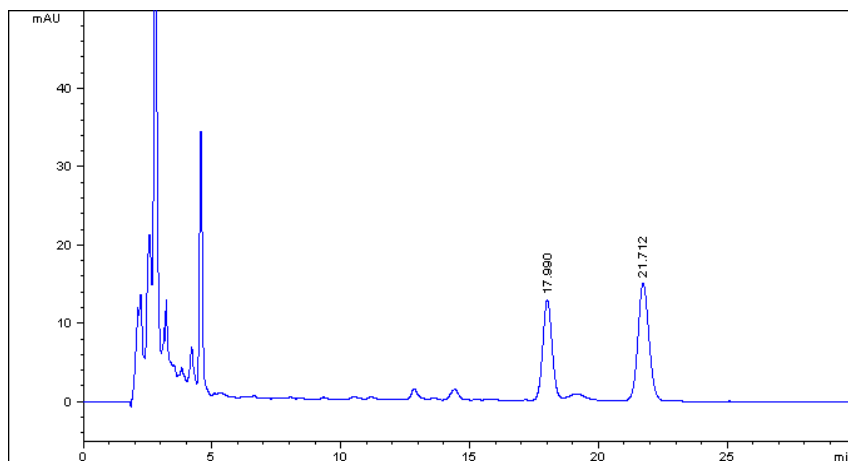
Accurately weigh 0.5 g of the powder, accurately add 25 ml of a 2 % solution of hydrochloric acid in methanol, and weigh. Heat under reflux for 30 minutes, allow to cool and weigh again, replenish the lost weight with a 2 % solution of hydrochloric acid in methanol and filter. Accurately measure 5 ml of the filtrate in a 10 ml volumetric flask, dilute with the mobile phase to volume and mix well.

Chromatographic conditions

- Column: ZORBAX SB C18
4.6×250 mm, 5 µm (880975-902)
- Column temperature: 30 °C
- Mobile phase: acetonitrile-methanol-1 % sodium dodecylsulfonate (1 % glacial acetic acid) (49:23:28)
- Detector wavelength: 280 nm

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 variable wavelength detector
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T _r
Fanchinoline	6.196	17.99	12.85	325.6	11894	1.07
Tetrandrine	7.685	21.712	14.99	441.4	12819	1.07