

Yinianjin Powder (*Yinianjin*) – 一捻金

Sample source

Commercially available Yinianjin Powder

Chemical reference substances

Emodin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 110756-200210)

Preparation of test solution

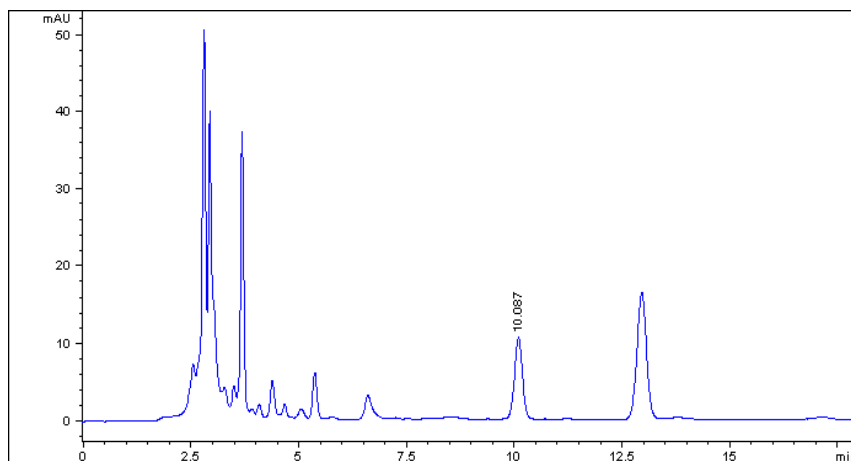
Grind the powder to a fine powder and mix thoroughly, accurately weigh 0.8 g in a stoppered conical flask, accurately add 20 mL of methanol, stopper tightly and weigh. Heat under reflux for 1 hour, allow to cool, weigh again, and replenish the lost weight with methanol. Mix well, filter, accurately measure 5 mL of the filtrate in a 100 mL round-bottomed flask and evaporate the solvent. Add 20 mL of 2.5 mol/L solution of sulfuric acid to the residue, treat ultrasonically for 10 minutes, heat on a water bath for 1 hour and cool immediately. Extract with four 25 mL quantities of ether, combine the ether extracts, wash with 15 mL of water and discard the washings. Evaporate the ether at a low temperature, dissolve the residue with methanol, transfer to a 25 mL volumetric flask, dilute with methanol to volume and mix well. Filter through a millipore membrane (0.45 μm), use the filtrate as the test solution.

Chromatographic conditions

- Column: Hypersil ODS, 4.6 x 250 mm, 5 mm (7991618-584)
- Column temperature: 25 °C
- Mobile phase: methanol-0.05 % phosphoric acid (80:20)
- Detector wavelength: 289 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
Emodin	3.035	10.087	10.54	135.7	14737	0.99