

Guishao Dihuang Pills (*Guishao Dihuang Wan*) – 归芍地黄丸

Sample source

Commercially available Guishao Dihuang Pills

Chemical reference substances

Paeoniflorin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110736-200220)

Preparation of test solution

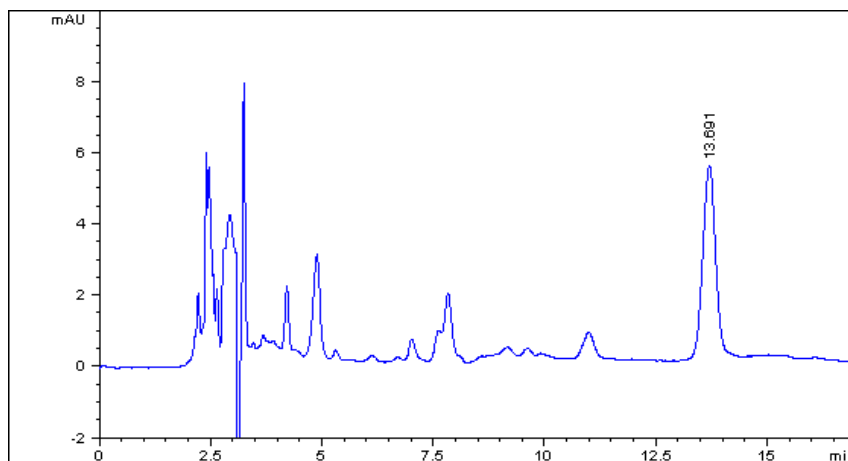
Cut a quantity of the pills into pieces and mixe well. Accurately weigh 0.4 g in a stoppered conical flask. Accurately add 50 mL of 70 % methanol, stopper tightly, weigh and treat ultrasonically for 45 minutes. Shake thoroughly, allow to reach room temperature, weigh again and replenish the lost weight with 70 % methanol, shake thoroughly, filter, accurately measure 25 mL of the filtrate, evaporate to dryness. Dissolve the residue in 25 mL of water by gently heating, allow to reach room temperature, extract with three 25 ml quantities of n-butanol saturated with water. Combine the n-butanol extracts, evaporate the solvent to dryness, dissolve the residue in an appropriate quantity of methanol, transfer to a 5 mL volumetric flask, dilute with methanol to volume and shake thoroughly as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-0.1 % phosphoric acid (14:86)
- Detector wavelength: 230 nm
- Flow rate: 1.0 mL/min

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
Paeoniflorin		13.691	5.41	107.4	11285	1.04