

Zhibai Dihuang Pills (*Zhibai Dihuang Wan*) – 知柏地黄丸

Sample source

Commercially available Zhibai Dihuang Pills

Chemical reference substances

Loganin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 1111640-200205)

Preparation of test solution

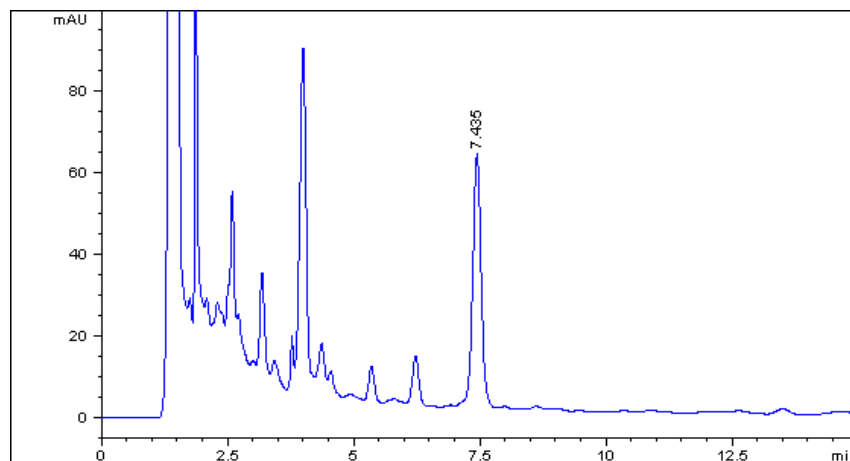
Cut the pills into pieces, accurately weigh 0.7 g in a stoppered conical flask, accurately add 25 mL of 50 % methanol and weigh. Treat ultrasonically for 15 minutes. Heat under reflux for 1 hour, allow to cool, weigh again, replenish the lost weight with 50 % methanol, shake well and filter. Accurately apply 10 mL of the filtrate to a column packed with neutral alumina (100-200 mesh, 4 g, 1 cm in inner diameter), elute with 50 mL of 40 % methanol, collect the eluents, evaporate to dryness and dissolve the residue in 50 % methanol. Transfer to a 5 mL volumetric flask, dilute with 50 % methanol to volume, shake 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-water (70:30)
- Detector wavelength: 236 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
Loganin	3.956	7.435	62.32	726.7	10458	1.01