

Niuhuang Jiangya Pills (*Niuhuang Jiangya Wan*) – 牛黄降压丸

Sample source

Commercially available Niuhuang Jiangya Pills

Chemical reference substances

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

Preparation of test solution

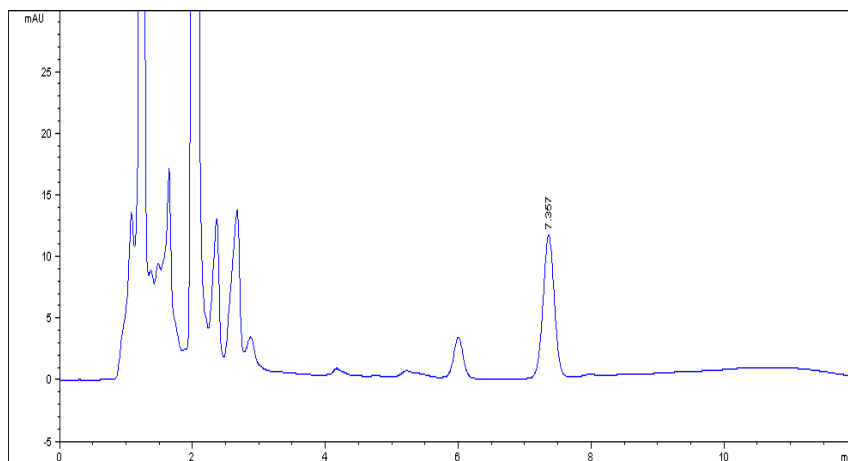
Grind a quantity of the pills to a fine powder. Accurately weigh 2 g of the powder in a stoppered conical flask, accurately add 50 mL of water, stopper tightly and weigh, treat ultrasonically for 45 minutes, allow to cool, weigh again, replenish the lost weight with water, mix well and centrifuge. Accurately apply 10 mL of the supernatant to a column (1.5 cm in inner diameter), packed with 3 g of dry polyamide, using water as the eluent. Collect 60 mL of the eluent, evaporate to dryness on a water bath, dissolve the residue in dilute ethanol TS, transfer to a 10 mL volumetric flask, dilute to volume, mix well and filter, 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: acetonitrile-water (15:85)
- Detector wavelength: 230 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 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
Paeoniflorin	3.905	7.357	11.59	135.7	9300	1.01