

Zhennaoning Capsules (*Zhennaoning Jiaonang*) – 镇脑宁胶囊

Sample source

Commercially available Zhennaoning Capsules

Chemical reference substances

Puerarin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 110752-200209)

Preparation of test solution

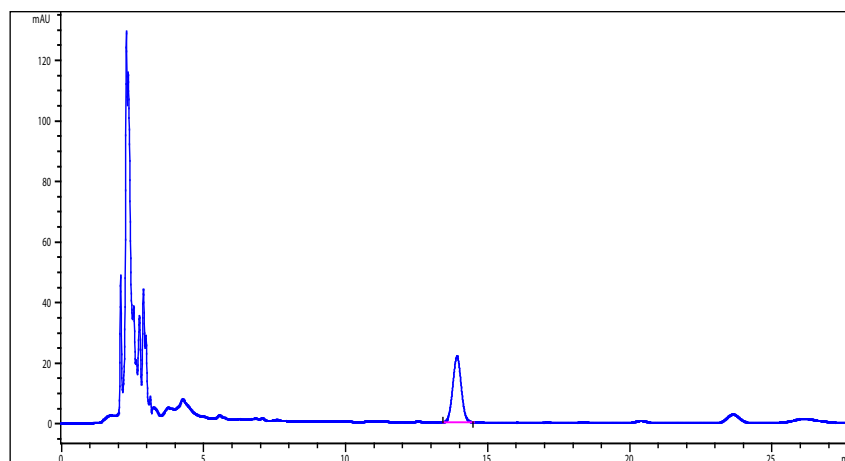
Mix the contents of the capsules well, accurately weigh 1 g, grind together with 1 g of kieselguhr, transfer to a Soxhlet extractor, add a quantity of petroleum ether (60-90 °C), heat under reflux on a water bath for 4 hours. Discard the petroleum ether extract and evaporate the remaining solvent in the residue. Transfer the residue with the extractor to a stoppered conical flask and accurately add 50 mL of 30 % ethanol, stopper tightly and weigh. Treat ultrasonically for 40 minutes, allow to cool, weigh again, replenish the lost weight with 30 % ethanol, shake well, filter and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 25 °C
- Mobile phase: methanol-water (25:75)
- Detector wavelength: 250 nm
- Flow rate: 1.0 mL/min
- Injection volume: 10 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
Puerarin	4.567	13.917	21.79	456.64	10479	1.03