

Buzhong Yiqi Watered Pills (*Buzhong Yiqi Wan (Shui Wan)*)

补中益气丸，水丸

Sample source

Commercially available Buzhong Yiqi Watered Pills

Chemical reference substances

Astragaloside IV (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 0781-9807)

Preparation of test solution

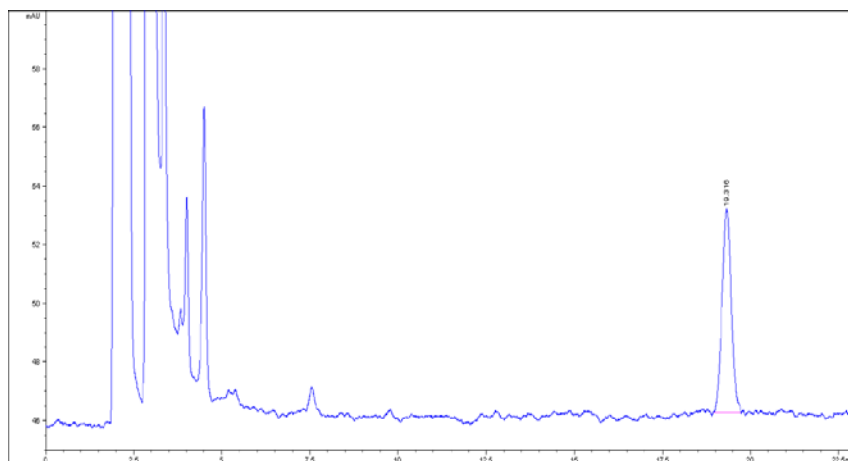
Grind a quantity of the pills to a fine powder and mix well. Accurately weigh about 4 g of the powder in a Soxhlet extractor, add a quantity of methanol, heat under reflux for 7 hours. Evaporate the extracts to dryness, and dissolve residue in 25 mL of warm water, wash with two 20 mL quantities of ether, extract the water layer with six 20 mL quantities of n-butanol saturated with water. Combine the n-butanol extracts, wash with three 40 mL quantities of ammonia. Evaporate the n-butanol extracts to dryness, and dissolve residue in methanol, and transfer to 10 mL volumetric flask, dilute with methanol to volume. Mix well, filter and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX XDB C18 4.6×250 mm, 5 µm (990967-902)
- Column temperature: 35 °C
- Mobile phase: acetonitrile-water (35:65)
- Evaporator tube temperature: 65°C
- Air flow rate: 2.0 mL/min
- Flow rate: 1.0 mL/min

Chromatographic system

- Agilent 1200 Series binary pump
- Agilent 1200 Series manual injector
- Agilent 1200 Series thermostated column compartment
- Agilent 35900 A/D converter
- ELSD Alltech 2000
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T _r
astragaloside IV	6.726	19.316	6.94	127.0	26364	1.04