

Guilin Xiguashuan (*Guilin Xiguashuang*) – 桂林西瓜霜

Sample source

Commercially available Guilin Xiguashuang

Chemical reference substances

Berberine hydrochloride (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110713-200208)

Preparation of test solution

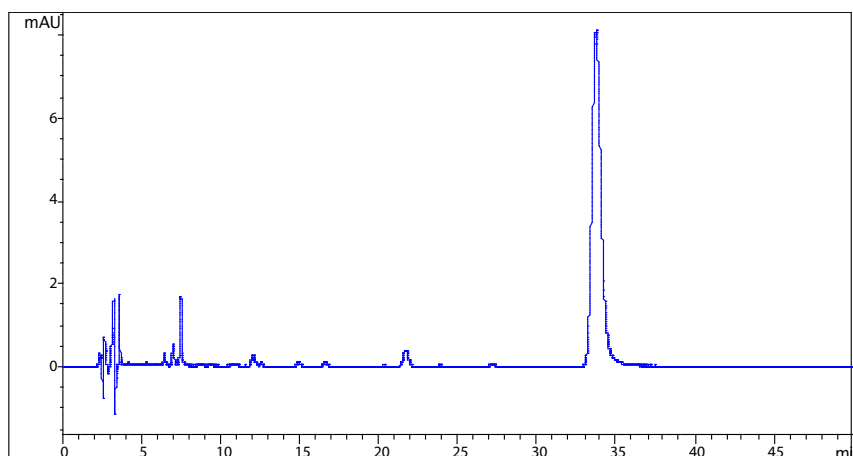
Accurately weigh 0.5 g of the powder in a stoppered conical flask, accurately add 50 mL of a mixture of hydrochloric acid-methanol (1:100), stopper tightly and weigh. Treat ultrasonically for 40 minutes, allow to reach room temperature, weigh again, replenish the lost weight with the above mixture, shake thoroughly and filter, use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX Eclipse Plus C18, 4.6×250 mm, 5 μm (959990-902)
- Column temperature: 20 °C
- Mobile phase: acetonitrile-0.05mol/L sodium dihydrogen phosphate solution (adjust pH value to 2.7 with phosphoric acid) (22:78)
- Detector wavelength: 350nm
- 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 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
Berberine	12.496	33.741	8.1	322.6	16491	1.2