

Baidai Pills (*Baidai Wan*) – 白帶丸

Sample source

Commercially available Baidai Wan

Chemical reference substances

Berberine hydrochloride (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110713-200209)

Preparation of test solution

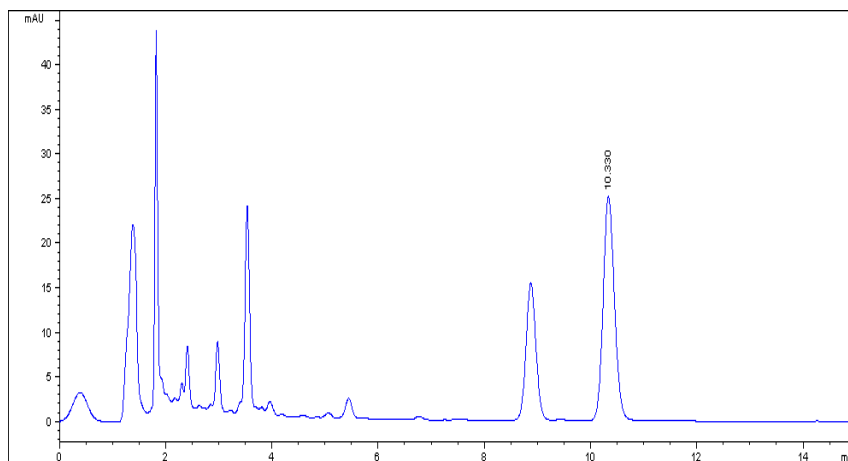
Grind a quantity of the pills to a fine powder and mix well. Accurately weigh about 0.2 g of the powder, accurately add 25 mL of a mixture of methanol and hydrochloric acid (1:100), weigh, heat under reflux for 30 minutes, allow to cool to room temperature, weigh again and replenish the lost weight with a mixture of methanol and hydrochloric acid (1:100). Mix well, filter and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX XDB C8 4.6×150 mm, 5 µm (993967-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-0.05mol/L potassium dihydrogen phosphate solution (adjust to pH 5.05 with sodium hydroxide TS) (25:75)
- Detector wavelength: 346 nm

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	5.886	10.33	25.17	370.3	11860	1.10