

Compound Berberine Hydrochloride Tablets (*Fufang Huangliang-su Pian*) – 复方黄连素片

Sample source

Commercially available Compound Berberine Hydrochloride Tablets

Chemical reference substances

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

Preparation of test solution

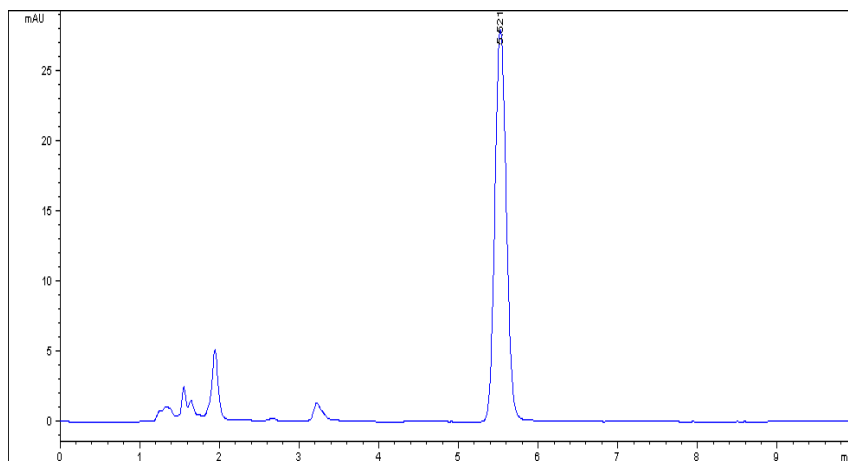
Accurately weigh 20 tablets, remove the coating, grind to a fine power and mix well. Accurately weigh 0.2 g in a 50 mL beaker, dissolve in 30 mL of boiling water and cool slightly. Add 3 mL of dilute hydrochloric acid TS, stir well and allow to cool to ambient temperature. Transfer the solution to a 50 mL volumetric flask, add water to volume, mix well, and centrifuge. Accurately measure 2 mL of the supernatant in a 25 mL volumetric flask, dilute to volume with the mobile phase and shake well.

Chromatographic conditions

- Column: ZORBAX XDB C18, 4.6×150 mm, 5 µm (993967-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-0.033 % potassium dihydrogen phosphate (30:70)
- Detector wavelength: 265 nm
- 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	2.681	5.521	27.92	277.5	7150	1.08