

Longqing Tablets (*Longqing Pian*) – 癭清片

Sample source

Commercially available Longqing Tablets

Chemical reference substances

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

Preparation of test solution

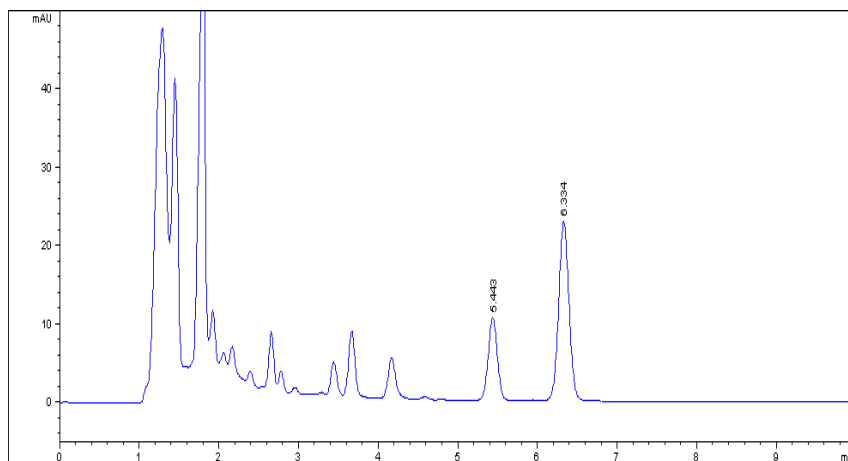
Accurately weigh 20 tablets, grind to a fine powder, accurately weigh 0.1 g of the fine powder in a stoppered conical flask, accurately add 50 mL of dilute ethanol TS, stopper tightly and weigh, treat ultrasonically for 30 minutes, allow to cool, weigh again and replenish the lost weight with dilute ethanol TS, mix well, filter. Use the filtrate as the test solution

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-0.05mol/L sodium dihydrogen phosphate (adjust the pH to 3 with phosphoric acid)(30:70)
- Detector wavelength: 270 nm
- Flow rate: 1.0 mL/min
- Injection volume: 5 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 |
|------------|-------|----------------|--------------|--------------|-------|-------|
| Berberine | 3.222 | 6.334 | 22.91 | 205.3 | 11899 | 1.04 |