

Amur Cook Tree (*Cortex Phellodendri Amurensis*) – 关黄柏

Sample source

Commercially available Amur Cork Tree

Chemical reference substances

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

Preparation of test solution

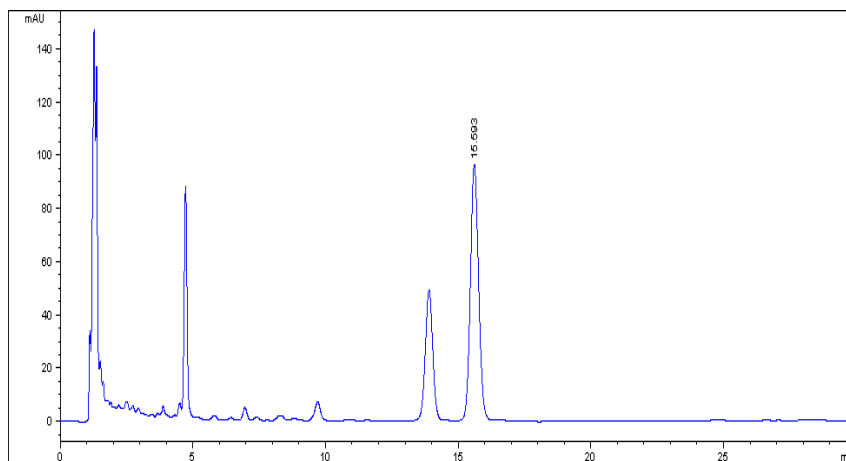
Accurately weigh 0.5 g of the powder in a stoppered conical flask, accurately add 50 mL of the mobile phase, weigh, treat ultrasonically for 40 minutes, allow to cool, weigh again, replenish the lost weight with the mobile phase, mix well, filter, and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX XDB C18 4.6×150 mm, 5 µm (993967-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-water (0.1 % phosphoric acid and 1 % sodium dodecylsulfonate) (50:50)
- 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 hydrochloride | 9.395 | 15.593 | 96.09 | 2055.8 | 12551 | 1.07 |