

Chuanxing Chantiao Pills (*Chuanxing Chantiao Wan*)

川芎茶调丸

Sample source

Commercially available Chuanxing Chantiao pills

Chemical reference substances

Ferulic acid (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110773-9910)

Preparation of test solution

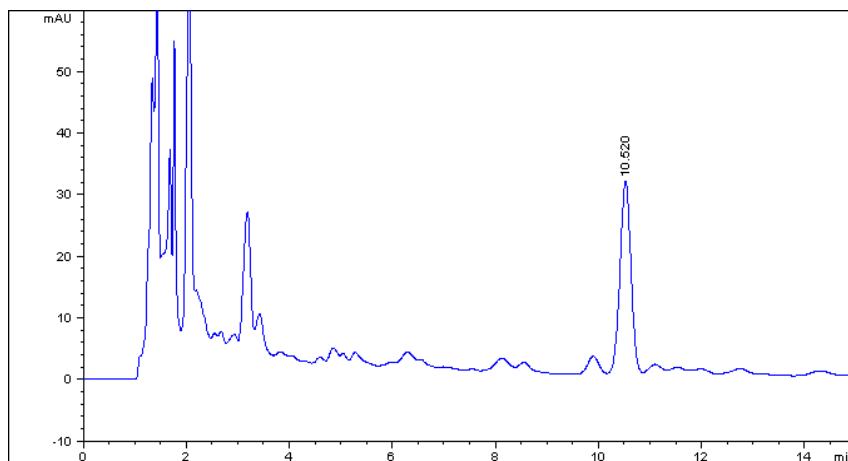
Grind a quantity of the pills to a fine powder and mix well. Accurately weigh 0.5 g of the powder, accurately add 20 mL of a mixture of 45 % ethanol and glacial acetic acid (20:1), weigh, heat under reflux for 1 hour, allow to cool, and weigh again. Replenish the lost weight with the above solution, mix thoroughly, centrifuge, and use the supernatant liquid as the test solution.

Chromatographic conditions

- Column: ZORBAX XDB C18, 4.6×150 mm, 5 µm (993967-902)
- Column temperature: 35 °C
- Mobile phase: methanol-2 % glacial acetic acid solution (25:75)
- Detector wavelength: 323 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 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 _r
Ferulic acid	6.013	10.52	30.97	452.4	11932	0.99