

Chinese Gall (*Galla Chinensis*) – 五倍子

Sample source

Commercially available Chinese Gall (Beijing)

Chemical reference substances

Gallic acid (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 0831-9501)

Preparation of test solution

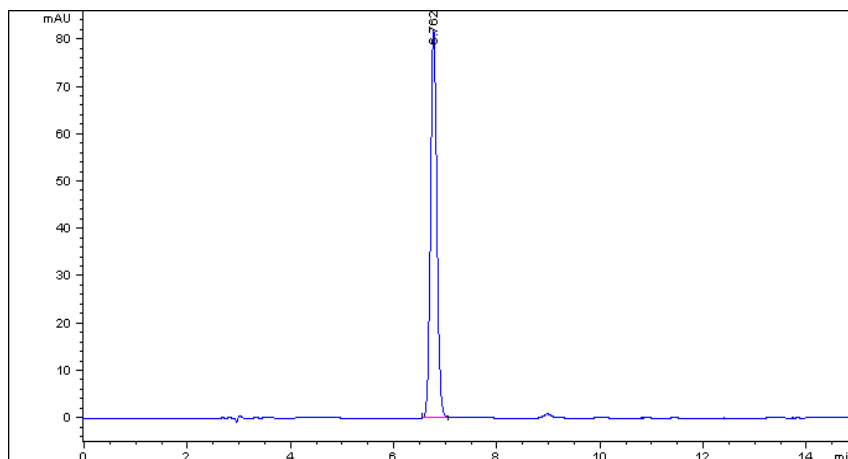
Accurately weigh 0.5 g of the fine powder, accurately add 50 mL of 4 mol/L hydrochloric acid, heat on a water bath for 3.5 hours, allow to cool, filter, accurately measure 1 mL of the filtrate in a 100 mL volumetric flask, dilute with 50 % methanol to volume, mix well, filter, and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB-Aq C18 4.6×150 mm, 5 µm (880975-914)
- Column temperature: 25 °C
- Mobile phase: methanol-0.1 % phosphoric acid (15:85)
- Detector wavelength: 273 nm
- Flow rate: 1.0 mL/min
- Injection volume: 2 µL

Chromatographic system

- Agilent 1200 Series quaternary pump with vacuum degasser
- Agilent 1200 Series high-performance autosampler
- Agilent 1200 Series thermostated column compartment
- Diode-array detector (G1315B)
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T _r
Gallic acid	1.705	6.762	81.93	697.8	15381	1.08