

Erchen Pills (*Erchen Wan*) – 二陈丸

Sample source

Commercially available Erchen Pills

Chemical reference substances

hesperidin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 0721-200211)

Preparation of test solution

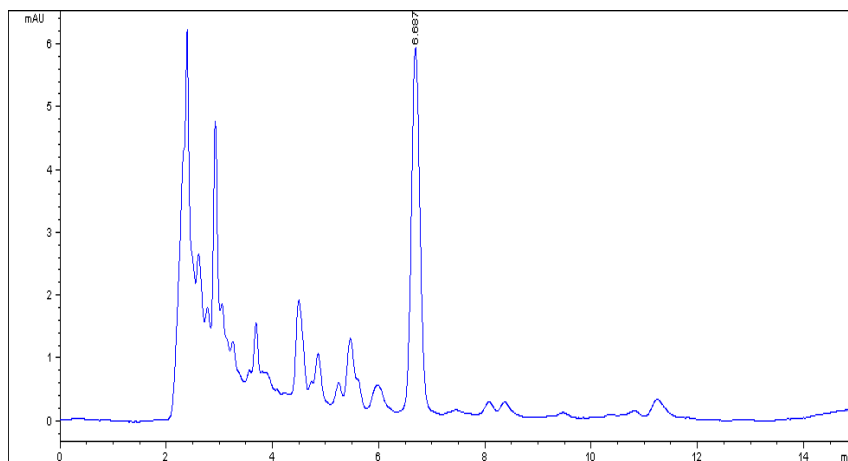
Grind a quantity of the pills to a powder, accurately weigh 0.5 g of the powder. Place in a Soxhlet extractor, add a quantity of petroleum ether (60-90 °C), heat under reflux for 2 hours, discard the petroleum ether, evaporate the residue to dryness, add a quantity of methanol, heat under reflux until the extract becomes almost colorless (about 7 hours), allow to cool. Transfer the methanol extract to a 50 mL volumetric flask, wash the container with small quantities of methanol in portions, combine the washings in the same volumetric flask, dilute to volume and shake well. Accurately measure 3 mL in a 10 mL volumetric flask, dilute to volume with methanol, mix well for use.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 40 °C
- Mobile phase: methanol-1 % glacial acetic acid (39:61)
- Detector wavelength: 283 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 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
Hesperidin	1.675	6.687	5.78	63.9	8584	1.05