

Zhitong Huazheng Capsules (*Zhitong Huazheng Jiaonang*)

止痛化徵膠囊

Sample source

Commercially available Zhitong Huazheng Capsules

Chemical reference substances

sodium danshensu (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 110855-200203)

Preparation of test solution

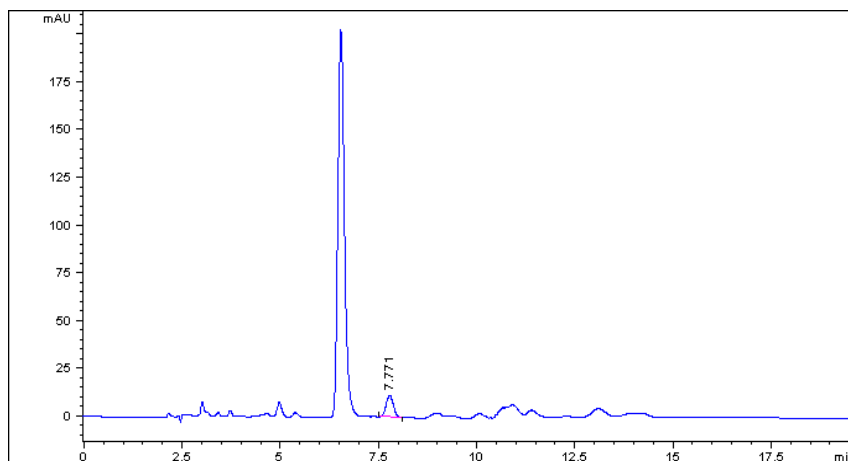
Grind the contents of the capsules to a fine powder, accurately weigh 1 g in a stoppered conical flask, accurately add 50 mL of a solution of hydrochloric acid (1:50), weigh, treat ultrasonically for 30 minutes, allow to cool and weigh again. Replenish the lost weight with a solution of hydrochloric acid (1:50), add 5 g of sodium chloride, stir well and centrifuge. Transfer accurately 25 mL of the supernatant to a separating funnel, extract by shaking with one 50 ml, one 30 ml, and two 20 ml quantities of ethyl acetate. Combine the ethyl acetate extracts, evaporate to dryness on a water bath, dissolve the residue in 50 % methanol, transfer to a 10 mL volumetric flask and dilute to volume and mix well. Filter through a millipore membrane (0.45 µm) and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 30 °C
- Mobile phase: methanol-water-dimethyl- formamide-glacial acetic acid (1:95.5:1: 2.5)
- 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 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
Danshensu	2.108	7.771	11.54	148.2	8363	1.01