

Xiao'er Huashi Pills (*Xiao'er Huashi Wan*) – 小儿化食丸

Sample source

Commercially available Xiao'er Huashi Pills

Chemical reference substances

emodin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 110756-200210)

Preparation of test solution

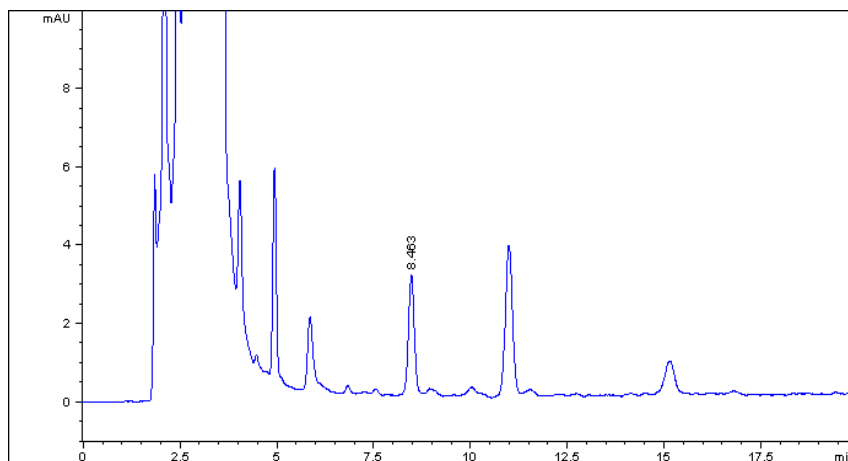
Cut the pills into pieces, accurately weigh 6 g, mix well with an equal quantity of kieselguhr, accurately weigh 2 g to a conical flask, accurately add 25 mL methanol, weigh, heat under reflux for 1 hour, allow to cool, weigh again, replenish the lost weight with methanol, mix well, and filter. Accurately measure 10 mL of the filtrate to a round-bottomed flask, evaporate the methanol on a water bath, add 20 mL of a solution of 2.5 mol/L sulfuric acid, treat ultrasonically for 10 minutes to dissolve, heat on a water bath for 1 hour, cool immediately, extract with four 25 mL quantities of ether, combine the ether extracts, wash with 15 mL of water, discard the washings, evaporate the ether on low temperature to dryness, dissolve the residue in a quantity of methanol in a 25 mL volumetric flask, dilute with methanol to volume, and mix well. Filter through a millipore membrane (0.45 μm), use the filtrate as the test solution.

Chromatographic conditions

- Column: Hypersil ODS, 4.6 \times 250 mm, 5 μm (7991618-584)
- Column temperature: 35 $^{\circ}\text{C}$
- Mobile phase: methanol-0.05 % phosphoric acid (80:20)
- Detector wavelength: 289 nm
- Flow rate: 1.0 mL/min
- Injection volume: 10 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
Emodin	2.385	8.463	3.05	31.7	15498	1.02