

Niuhuang Jiedu Pills (*Niuhuang Jiedu Wan*) – 牛黄解毒丸

Sample source

Commercially available Niuhuang Jiedu Pills

Chemical reference substances

Baicalin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110715-200212)

Preparation of test solution

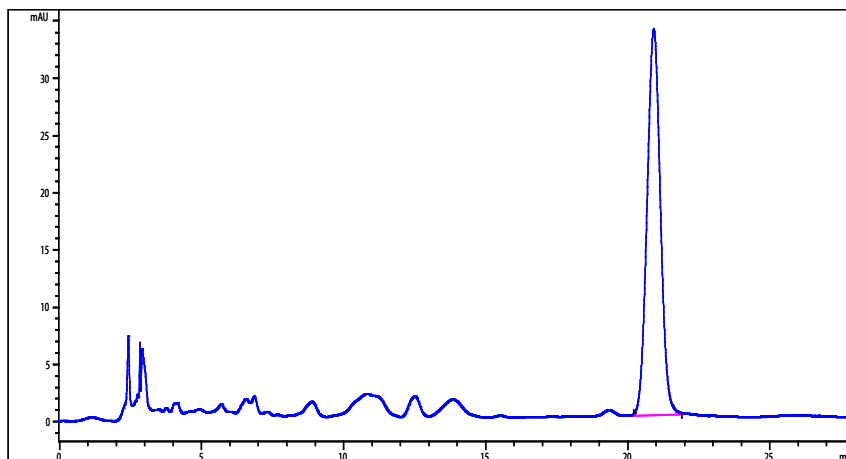
Remove the coatings from 20 tablets and grind to a fine powder. Accurately weigh 0.3 g of the powder, add 30 ml of 70% ethanol, treat ultrasonically for 20 minutes, allow to cool and filter. Transfer the filtrate to a 50 mL volumetric flask, wash the container and residue with small quantity of 70 % ethanol in portions, combine the washings in the same volumetric flask, dilute to volume with 70 % ethanol and shake well. Accurately measure 2 mL of the solution in a 10 mL volumetric flask, dilute to volume with 70 % ethanol and shake well.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 30 °C
- Mobile phase: methanol-0.36% phosphoric acid (42:58)
- Detector wavelength: 315 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
Baicalin	7.367	20.917	33.70	1102.1	9568	1.04