

Niuhuang Xiaoyan Tablets (*Niuhuang Xiaoyan Pian*) – 牛黄消炎片

Sample source

Commercially available Niuhuang Xiaoyan Tablets

Chemical reference substances

1. Cinobufagin, 2. Bufogenin
(National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1.803-200203, 2.718-200207)

Preparation of test solution

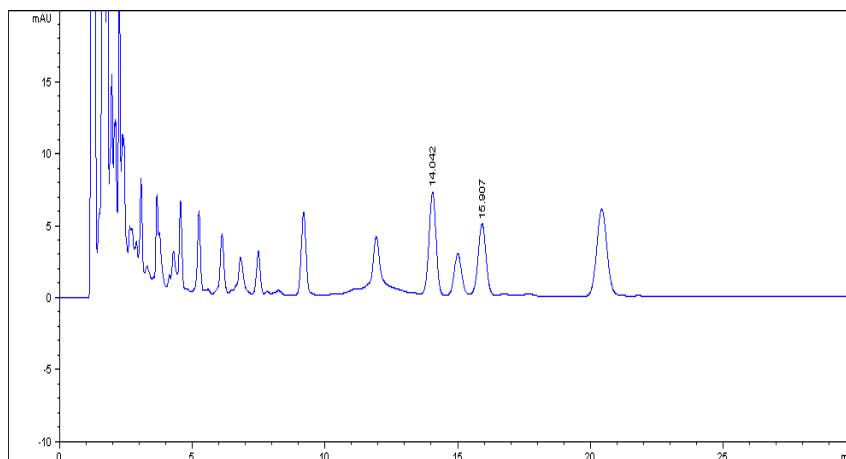
Accurately weigh 20 tablets, remove the coatings and grind to a fine powder. Accurately weigh 0.6 g of the powder in a stopper conical flask, accurately add 25 mL of methanol, stopper tightly, weigh, shake well, allow to stand overnight, treat ultrasonically for 20 minutes, cool, weigh again, replenish the lost weight with methanol, shake well, filter and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 40 °C
- Mobile phase: acetonitrile-0.5% potassium dihydrogen phosphate (adjust pH to 3.2 with phosphoric acid) (40:60)
- Detector wavelength: 296nm
- 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 |
|-------------|----|----------------|--------------|--------------|-------|--------------------|
| Cinobufagin | | 14.042 | 7.14 | 131.0 | 13607 | 0.98 |
| Bufogenin | | 15.907 | 4.98 | 102.7 | 13690 | 0.99 |