

Shugan Pills (*Shugan Wan*) – 舒肝丸

Sample source

Commercially available Shugan Pills

Chemical reference substances

Paeoniflorin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 110736-200220)

Preparation of test solution

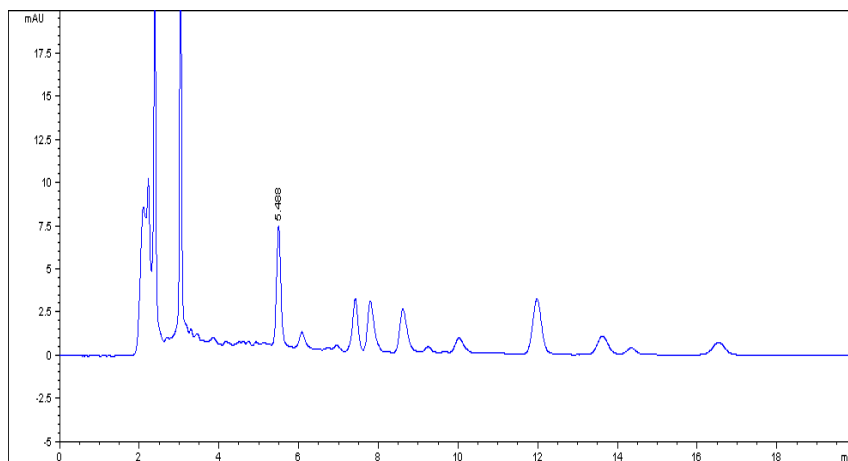
Grind the pills to a fine powder, accurately weigh 1 g, in a stoppered conical flask, accurately add 50 mL of dilute ethanol TS, stopper tightly, weigh and treat ultrasonically for 45 minutes. Allow to cool, weigh again and replenish the lost weight with dilute ethanol TS, mix well and filter. Accurately measure 5 mL of the filtrate and evaporate to dryness, dissolve the residue in 5 mL of water and apply to a GDX-201 macroporous resin column (1.0 cm in inner diameter and 12 cm in length). Elute with 100 mL of 30 % methanol, and collect the eluents. Evaporate to dryness, dissolve the residue in methanol, transfer to a 5 mL volumetric flask, dilute with methanol to volume, mix well and filter, use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-phosphate BS (0.05 mol/L disodium hydrogen phosphate:0.05 mol/L sodium dihydrogen phosphate = 1:5) (20:80)
- Detector wavelength: 230 nm
- Flow rate: 1.0 mL/min
- Inject 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 |
|--------------|-------|----------------|--------------|--------------|-------|--------------------|
| Paeoniflorin | 1.195 | 5.488 | 6.92 | 51.0 | 13106 | 1.08 |