

Mingmu Dihuang Pills (*Mingmu Dihuang Wan*) – 明目地黄丸

Sample source

Commercially available Mingmu Dihuang Pills

Chemical reference substances

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

Preparation of test solution

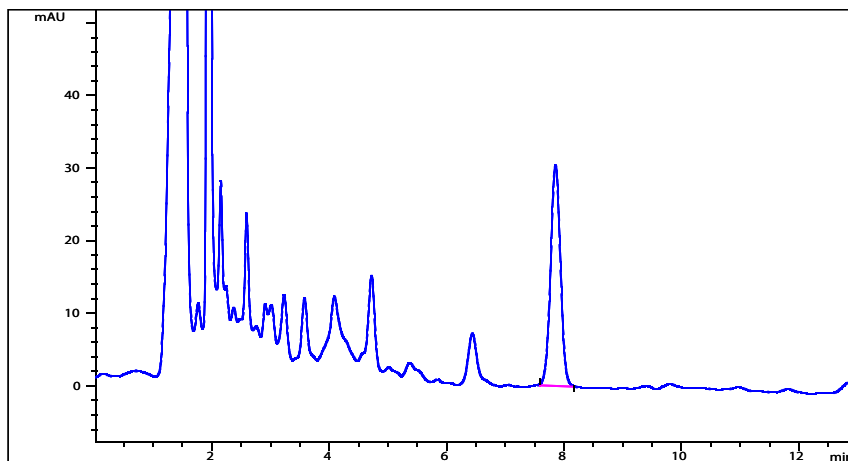
Cut the pills into pieces, accurately weigh 0.5 g, accurately add 50 mL of 70 % methanol, stopper tightly and weigh. Treat ultrasonically for 45 minutes, allow to cool, weigh again, replenish the lost weight with 70 % methanol and shake well. Accurately measure 25 mL of the solution and evaporate to dryness. Dissolve the residue in 25 mL of water by warming, allow to cool, extract with three 25 mL quantities of n-butanol and evaporate to dryness. Dissolve the residue in methanol and transfer to a 5 mL volumetric flask, add methanol to volume and shake 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 \times 150 mm, 5 μm (883975-902)
- Column temperature: 35 $^{\circ}\text{C}$
- Mobile phase: acetonitrile-0.1% phosphoric acid (14:86)
- Detector wavelength: 230 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
Paeoniflorin	5.549	7.858	30.40	355.0	10803	0.99