

Tongxuan Lifei Pills (*Tongxuan Lifei Wan*) – 通宣理肺丸

Sample source

Commercially available Tongxuan Lifei Pills

Chemical reference substances

ephedrin hydrochloride (National Institute for the Control of Pharmaceutical and Biological Products)

Preparation of test solution

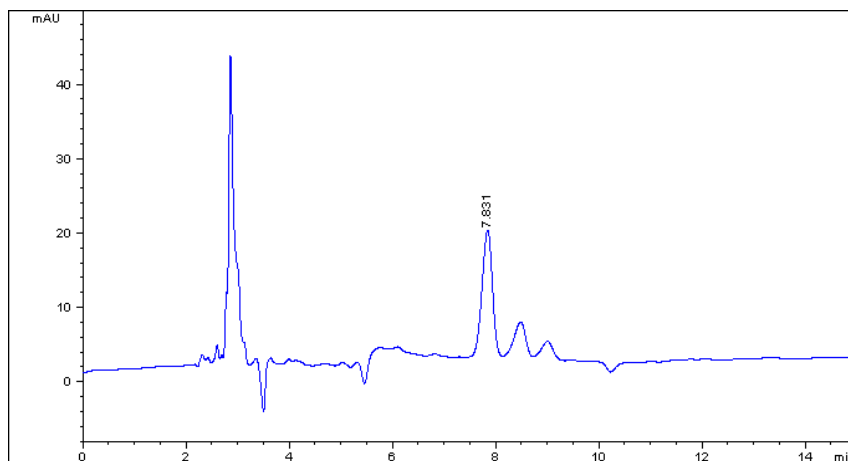
Grind the pills to fine powder, accurately weigh 2 g in a Soxhlet extractor, add 3 mL of concentrated ammonia TS, 10 mL of ethanol, and a quantity of ether, extract under reflux until the extract is colorless. Transfer the ether extract to an evaporating dish, wash the extractor and apparatus with ether, combine ether washings in the evaporating dish, and evaporate the ether. Dissolve the residue in a solution of hydrochloric acid in methanol (1:1000), and transfer to a 10 mL of volumetric flask, add a solution of hydrochloric acid in methanol (1:1000) to volume, mix well and filter, and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX Bonus-RP 4.6×250 mm, 5 µm (880668-901)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-20 mmol/L potassium dihydrogen phosphate (pH 2.7) (3:97)
- Detector wavelength: 210 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
Ephedrin	2.123	7.831	16.71	236.1	7283	0.95