

# Sishen Pills (*Sishen Wan*) – 四神丸

## Sample source

Commercially available Sishen Pills

## Chemical reference substances

1. Psoralen, 2. Isopsoralen (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 1. 110739-200309, 2. 110738-200309)

## Preparation of test solution

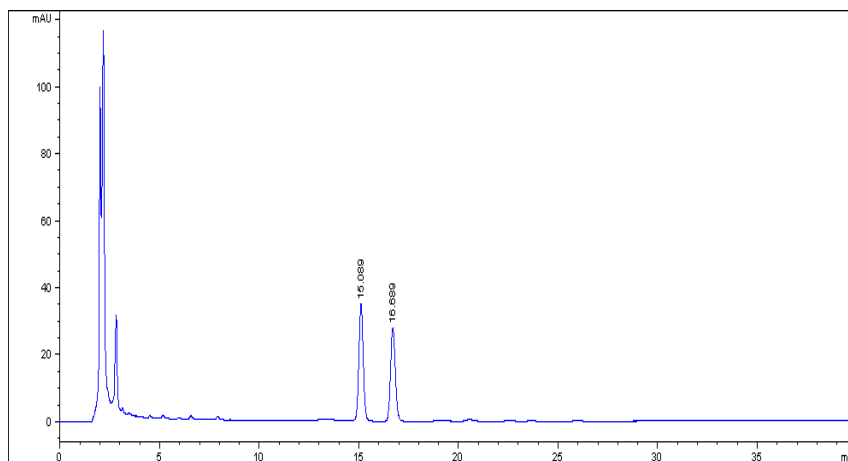
Grind the pills to a fine powder, accurately weigh 1 g in a stoppered conical flask, accurately add 100 mL of 70 % methanol, stopper tightly, and weigh. Treat ultrasonically for 20 minutes, allow to cool, weigh again, replenish the lost weight with 70 % methanol, mix well, filter and use the filtrate as the test solution.

## Chromatographic conditions

- Column: ZORBAX XDB C18 4.6×250 mm, 5 µm (990967-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-water (33:67)
- Detector wavelength: 245 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 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 <sub>r</sub>
Psoralen	5.036	15.089	34.9	531.5	23616	1.06
Isopsoralen	5.675	16.689	27.76	463.4	23625	1.09