

# Renshen Jianpi Pills (*Renshen Jianpi Wan*) – 人參健脾丸

## Sample source

Commercially available Renshen Jianpi Pills

## Chemical reference substances

hesperidin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110721-200211)

## Preparation of test solution

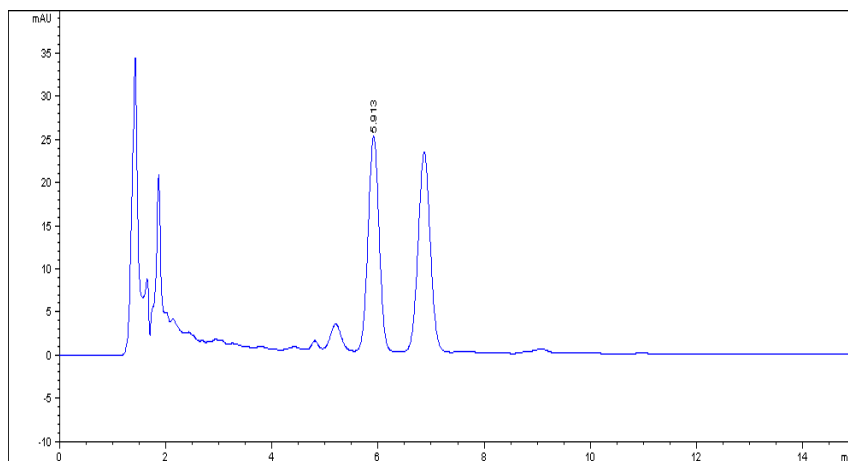
Cut a quantity of the pills into pieces, accurately weigh about 6 g, grind well with 6 g of kieselguhr to form a flake and cut into pieces. Transfer to a Soxhlet extractor, heat under reflux with 80 mL of petroleum ether (60-90 °C) for 3 hours. Discard the petroleum ether extract, evaporate the remaining solvent in the residue, add 80 mL of methanol, heat under reflux for 5 hours, allow to cool and filter. Transfer the filtrate to a 100 mL volumetric flask, wash the container with small quantities of methanol several times, filter the washings into the same flask, dilute with methanol to volume, and mix well as the test solution.

## Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 25 °C
- Mobile phase: methanol-water-acetic acid (35:61:4)
- Detector wavelength: 284 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>
Hesperidin	3.927	5.913	24.79	357.6	3922	1.00