

# Guben Kechuan Tablets (*Guben Kechuan Pian*) – 固本咳喘片

## Sample source

Commercially available Guben Kechuan Tablets

## 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

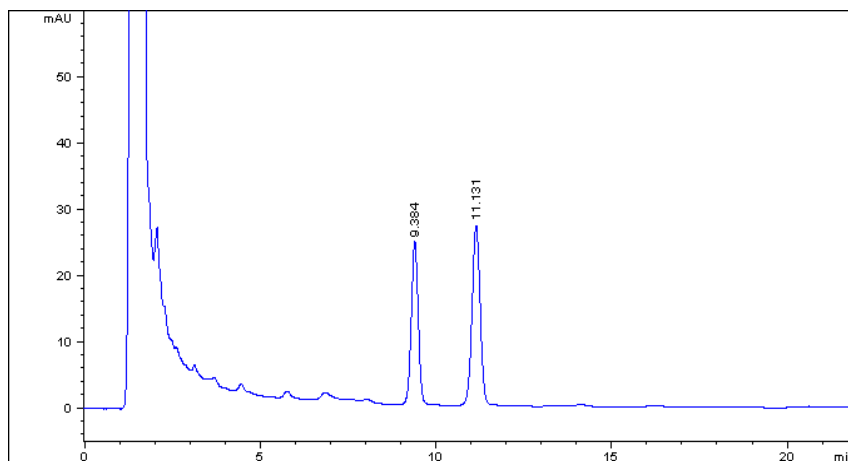
Accurately weigh 10 tablets, grind to a fine powder, accurately weigh 0.4 g of the powder in a stoppered conical flask, accurately add 20 mL of methanol, stopper tightly, and weigh. Treat ultrasonically for 40 minutes, cool, weigh again, replenish the lost weight with methanol, shake well, filter, and 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: methanol-0.1mol/L disodium hydrogen phosphate solution (adjust pH value to 7.0 with 30 % phosphoric acid) (45:55)
- Detector wavelength: 246 nm

## 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		9.384	24.57	338.7	11180	1.00
Isopsoralen		11.131	27.10	438.2	11282	0.99