

# Xiatianwu Tablets (*Xiatianwu Pian*) – 夏天无片

## Sample source

Commercially available Xiatianwu Tablets

## Chemical reference substances

Protopine (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 110853-200201)

## Preparation of test solution

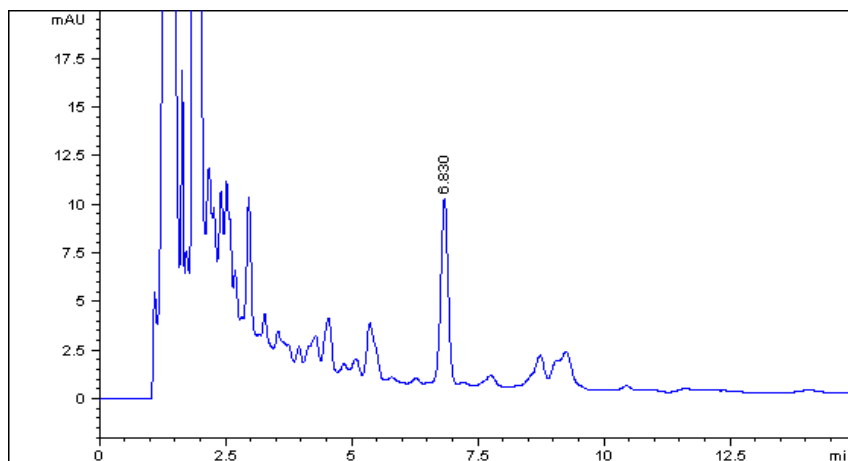
Remove the coatings of 10 tablets and grind to a fine powder, accurately weigh 0.6 g in a stoppered conical flask, accurately add 50 mL of 50 % methanol, and weigh. Heat under reflux for 1 hour, allow to cool, weigh again, replenish the lost weight with 50 % methanol, and mix well. Filter, and use the filtrate as the test solution.

## Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-water (containing 3 % glacial acetic acid and 0.8 % triethylamine) (21:79)
- Detector wavelength: 289nm
- 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>
Protopine	3.553	6.830	9.52	95.1	11233	0.97