

Sanjin Tablets (*Sanjin Pian*) – 三金片

Sample source

Commercially available Sanjin Tablets

Chemical reference substances

Madecassoside (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1110893-200201)

Preparation of test solution

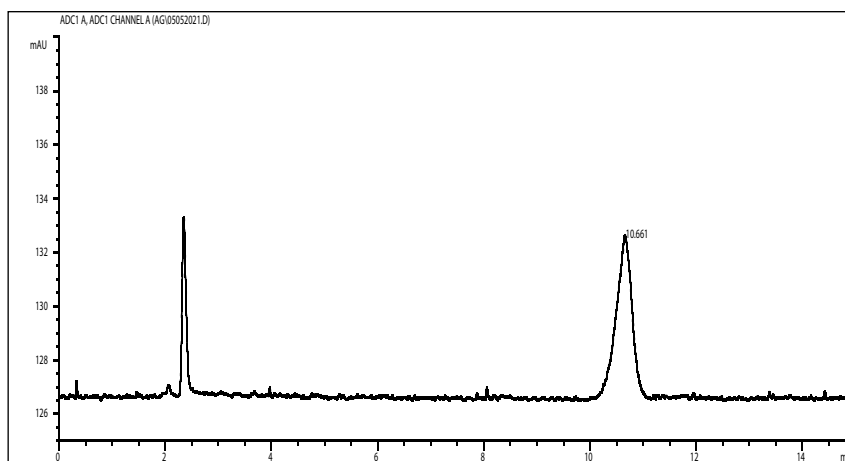
Remove the coatings from 30 tablets and grind to a fine powder. Accurately weigh 1.5 g of the powder in a stoppered conical flask, accurately add 50 mL of methanol, weigh. Treat ultrasonically for 45 minutes, allow to cool, weigh again, replenish the lost weight with methanol, mix well and filter. Accurately measure 25 mL of the filtrate, evaporate to dryness, dissolve the residue in 20 mL of water, and extract with three 15 mL quantities of ammonia TS. Evaporate the n-butanol extracts to dryness, dissolve the residue in methanol and transfer to a 5 mL volumetric flask, dilute with methanol to volume, mix well.

Chromatographic conditions

- Column: ZORBAX Extend C18 4.6×250 mm, 5 µm (770450-902)
- Column temperature: 40 °C
- Mobile phase: methanol-water (48:52)
- Evaporator tube temperature: 80 °C, Nebulizing temperature: 50 °C, Air flow rate: 1.5 SLM
- Flow rate: 1.0 mL/min
- Injection volume: 20 µL

Chromatographic system

- Agilent 1200 Series quaternary pump with vacuum degasser
- Autosampler (G1313A)
- Agilent 1200 Series thermostated column compartment
- Agilent 35900 A/D converter
- ELSD PL-ELS 1000
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T _r
Madecassoside	3.298	10.661	6.07	127.1	6345	0.91