Common Clubmoss Herb (*Herba Lysimachiae*) – 金钱草

Sample source

Commercially available Common Clubmoss Herb (Jiangsu province)

Chemical reference substances

1. Quercetin, 2. Kaempferol (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1. 0081-9905, 2. 0864-9901)

Preparation of test solution

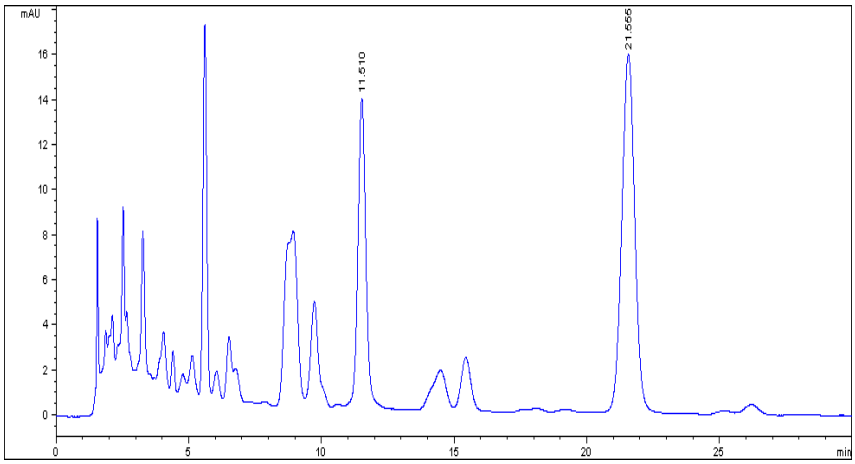
Accurately weigh 1.5 g of the powder in a stoppered conical flask. Accurately add 50 mL of 80 % methanol, weigh, and heat under reflux on a water bath for 1 hour, allow to cool, weigh again, replenish the lost weight with 80 % methanol, mix well and filter. Accurately measure 25 mL of the filtrate, accurately add 5 mL of hydrochloric acid, heat on a water bath at 90 °C for 1 hour, cool immediately. Transfer to a 50 mL volumetric flask, dilute with 80 % methanol to volume and mix well.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 25 °C
- Mobile phase: methanol-0.4 % phosphoric acid (45:55)
- Detector wavelength: 360 nm
- Flow rate: 1.0 mL/min
- Injection volume: 10 µL

Chromatographic system

- Agilent 1200 Series quaternary pump with vacuum degasser
- Agilent 1200 Series high-performance autosampler
- Agilent 1200 Series thermostatted column compartment
- Agilent 1200 Series variable wavelength detector
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T$_f$
Quercetin	8.592	11.510	13.51	266.7	8106	1.05
Kaempferol	16.962	21.555	15.80	525.9	9725	1.01