Obtuseleaf Erycibe Stem *(Caulis Erycibes)* – 丁公藤

Sample source

Commercially available Obtuseleaf Erycibe Stem

Chemical reference substances

scopoletin (National Institute for the Control of Pharmaceutical and Biological Products)

Preparation of test solution

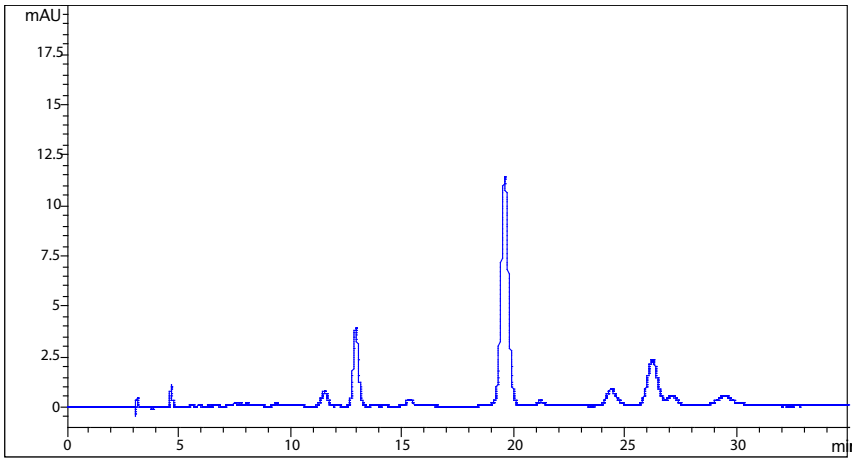
Accurately weigh 1 g of the powder in a stoppered conical flask. Accurately add 50 mL of 70% ethanol, weigh, heat on a water bath for 6 hours, allow to cool, weigh again, replenish the lost weight with 70% ethanol, mix well and filter. Accurately measure 25 mL of the filtrate to a flask, evaporate to about 1 mL, and add 10 mL of 3 mol/L hydrochloric acid, heat on a water bath for 2 hours, cool immediately. Transfer to a separating funnel, wash the flask several times with 10 mL of water, combine the washings in the separating funnel, add 2 g of sodium chloride, extract with five 15 mL quantities of chloroform, combine the chloroform extracts, add 2 g of anhydrous sodium sulfate, stir well and filter, wash the separating funnel with a small quantity of chloroform, filter, combine the filtrates and evaporate to almost dryness below 70 °C, immediately dissolve the residue in methanol, transfer to a 10 mL volumetric flask, dilute to volume and mix well.

Chromatographic conditions

- Column: Agilent TC-C18, 4.6×250 mm, 5 µm (518925-902)
- Column temperature: 25 °C
- Mobile phase: methanol-water-glacial acetic acid (30:70:0.14)
- Detector wavelength: 298 nm
- Flow rate: 1.0 mL/min

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	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T_f
Scopoletin	19.603	11.30	260.4	17195	1.002