

Ginkgo Leaf (*Folium Ginkgo*) – 银杏叶

Sample source

Commercially available Ginkgo Leaf (Pizhou, Jiangsu province)

Chemical reference substances

1. Quercetin, 2. Kaempferol, 3. Isorhamnetin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 1. 0081-9905, 2. 0864-9901)

Preparation of test solution

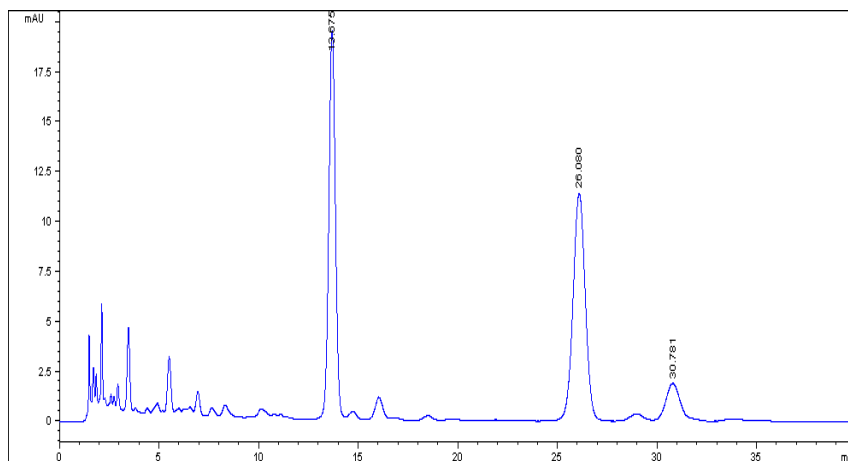
Accurately weigh 1 g of the powder in a Soxhlet extractor, add chloroform and heat under reflux for 2 hours. Discard the chloroform solution, evaporate the residue to dryness, add methanol, heat under reflux for 4 hours and evaporate the extract to dryness. Dissolve the residue in 25 mL of a mixture of methanol and 25 % hydrochloric acid (4:1), heat under reflux for 30 minutes, allow to cool, transfer to a 50 mL volumetric flask, add 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: 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 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 _r
Quercetin	8.117	13.675	19.37	439.4	8485	1.01
Kaempferol	16.386	26.08	11.30	473.1	9043	1.00
Isorhamnetin	19.521	30.781	1.78	82.1	10037	1.05