Ginkgo Tablets *(Tabellae Folium Ginkgo)* – 银杏叶片

Sample source

Commercially available Ginkgo Tablets

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

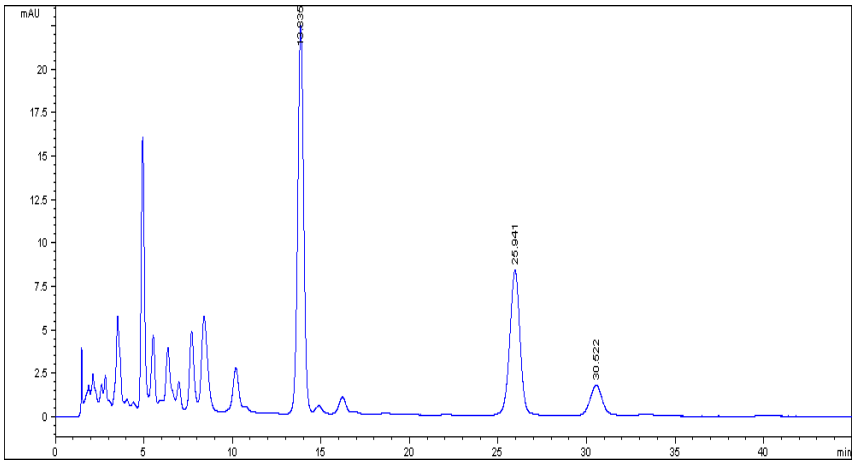
Accurately weigh 10 tablets, remove the coatings and grind to a fine powder. Accurately weigh 0.4 g of the powder in a stoppered conical flask, accurately add 20 mL of methanol, stopper tightly, weigh and treat ultrasonically for 20 minutes, allow to cool, weigh again, replenish the lost weight with methanol, mix well and filter. Accurately measure 5 mL of the filtrate in a 100 mL conical flask, add 10 mL of methanol, 5 mL of 25 % solution of hydrochloride acid, mix well, heat under reflux on a water bath for 30 minutes, cool immediately to room temperature, transfer to a 50 mL volumetric flask, dilute with methanol to volume, mix well and filter, 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: 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 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	8.224	13.835	22.30	520.0	8448	1.02
Kaempferol	16.294	25.941	8.28	324.4	10462	0.97
Isorhamnetin	19.348	30.522	1.72	78.5	10567	1.03