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

Sample source

Commercially available Ginkgo Tablets

Chemical reference substances

Ginkgolide A, Ginkgolide B, Ginkgolide C, and Bilobalide (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 0862-200004, 110863-200305, 110864-200304, 110865-200404)

Preparation of test solution

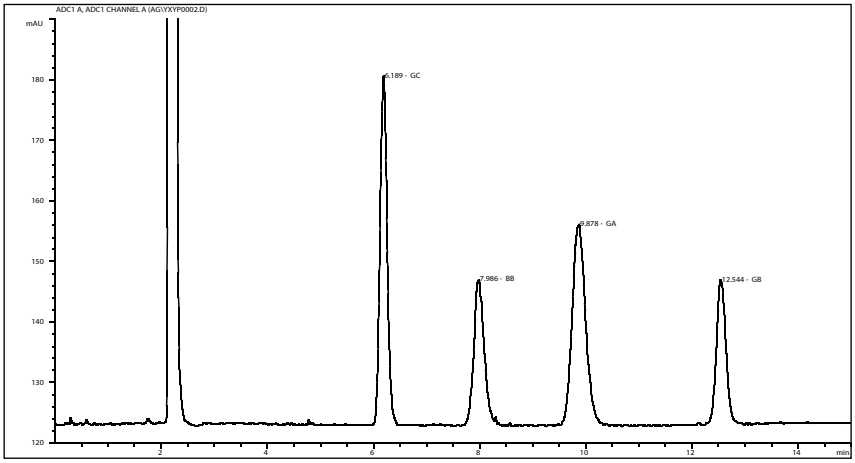
Accurately weigh 20 tablets, remove the coatings and grind to a fine powder. Accurately weigh the powder, accurately add 50 mL of methanol, stopper tightly, weigh and treat ultrasonically for 20 minutes, allow to cool, weigh again, replenish the lost weight with methanol, mix well and filter. Accurately measure 20 mL of the filtrate, evaporate the methanol to dryness, dissolve the residue in 10 mL of water, heat on a water bath, add 2 drop of a 2 % solution of hydrochloric acid, extract with four 10 ml quantities of ethyl acetate by shaking, combine the extracts, wash with 20 mL of a 5 % solution of sodium acetate, separate the layer of sodium acetate, wash with 10 mL of ethyl acetate. Combine the ethyl acetate extracts and washings, wash with two 20 mL quantities of water, combine the water washings, wash with 10 mL of ethyl acetate, combine the ethyl acetate washings, evaporate to dryness, dissolve the residue in methanol in a 5 mL volumetric flask, dilute with methanol to the volume and mix well.

Chromatographic conditions

- Column: ZORBAX XDB C18 4.6×250 mm, 5 µm (990967-902)
- Column temperature: 50 °C
- Mobile phase: A: 1 % n-propanol in water, B: 1 % n-propanol in tetrahydrofuran; 0-6 min: 30-15 %B, 6-10 min: 15-30 %B, 10-15 min: 30 %B.
- Evaporator tube temperature: 80 °C, Nebulizing temperature: 50 °C, Air flow rate: 1.2SLM
- 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 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_f
Bilobalide	2.194	7.986	24.04	320.6	8833	1.10
Ginkgolide A	2.951	9.878	33.05	571.4	7415	1.06
Ginkgolide B	4.018	12.544	23.75	291.6	24578	1.10
Ginkgolide C	1.476	6.189	57.41	522.7	10700	1.10