

Ash Bark (*Cortex Fraxini*) – 秦皮

Sample source

Commercially available Ash Bark

Chemical reference substances

1. Aesculin, 2. Aesculetin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1. 110740-200104, 2. 110741-200105)

Preparation of test solution

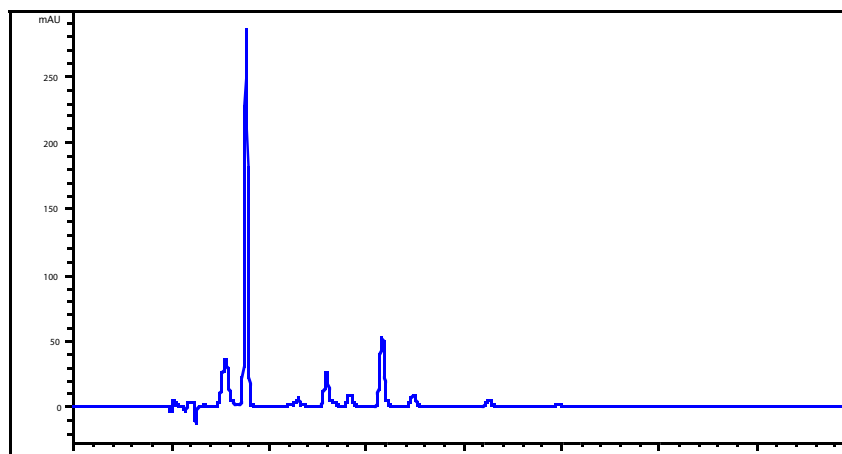
Accurately weigh 0.5 g of the powder in a stoppered conical flask, accurately add 50 mL of methanol, weigh, heat under reflux on a water bath for 60 minutes, allow to cool, weigh again, replenish the lost weight with methanol, mix well. Filter through a millipore membrane (0.45 μm) and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX Eclipse Plus C18, 4.6 \times 250 mm, 5 μm (959990-902)
- Column temperature: 40 $^{\circ}\text{C}$
- Mobile phase: acetonitrile-0.1% phosphoric acid (14:86)
- Detector wavelength: 334 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	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T_r
aesculin	4.419	283.71	1595.6	14779	1.03
aesculetin	7.893	53.35	456.1	19906	1.08