Buckeye Seed *(Semen Aesculi)* – 娑罗子

Sample source

Commercially available Buckeye Seed

Chemical reference substances

Sodium aescine (National Institute for the Control of Pharmaceutical and Biological Products, Batch number: 10346-0001)

Preparation of test solution

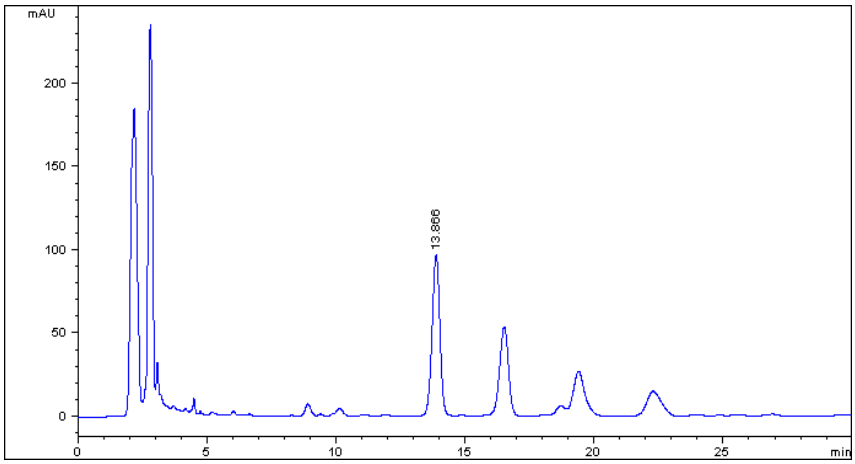
Accurately weigh 1 g of the powder in a Soxhlet extractor, heat under reflux in ether for 1 hour, then discard ether, and evaporate the ether to dryness. Transfer the residue and extractor to a stoppered conical flask, accurately add 50 mL of methanol, weigh, and treat ultrasonically for 30 minutes, allow to cool and weigh again, replenish the lost solvent with methanol and mix well, filter. Accurately measure 25 mL of the filtrate in an evaporating dish. Heat on a water bath at 40 °C and concentrate to suitable volume, transfer to a 10 mL volumetric flask, add methanol to volume, and mix well. Filter through millipore membrane (0.45 µm), and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×250 mm, 5 µm (880975-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-0.2% phosphoric acid (37:63)
- Detector wavelength: 220 nm
- Flow rate: 1.0 mL/min
- Inject 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
Aescine	4.546	13.866	96.37	2021.0	10225	0.96