

Common Fenugreek Seed (*Semen Trigonellae*) – 胡芦巴

Sample source

Commercially available Common Fenugreek Seed

Chemical reference substances

Trigonelline (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 883-200001)

Preparation of test solution

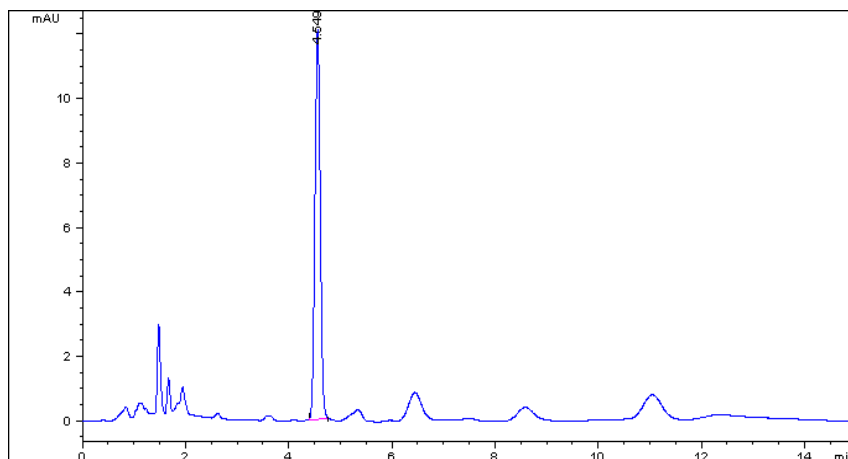
Accurately weigh 0.5 g of the powder in a conical flask, add 50 mL of 50 % methanol, and weigh. Allow to stand for 1 hour, treat ultrasonically for 45 minutes, allow to cool and weigh again, replenish the lost weight with 50 % methanol and mix well.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 25 °C
- Mobile phase: methanol-0.3 % acetic acid-0.03 % sodium dodecyl sulfonate (20:0.1:80)
- Detector wavelength: 265 nm
- Flow rate: 1.0 mL/min

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
Trigonelline	2.033	4.549	12.10	85.5	9833	1.06