Turmeric (*Rhizoma Curcumae Longae*) – 姜黄

Sample source

Commercially available Turmeric

Chemical reference substances

Curcumin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110823-9802)

Preparation of test solution

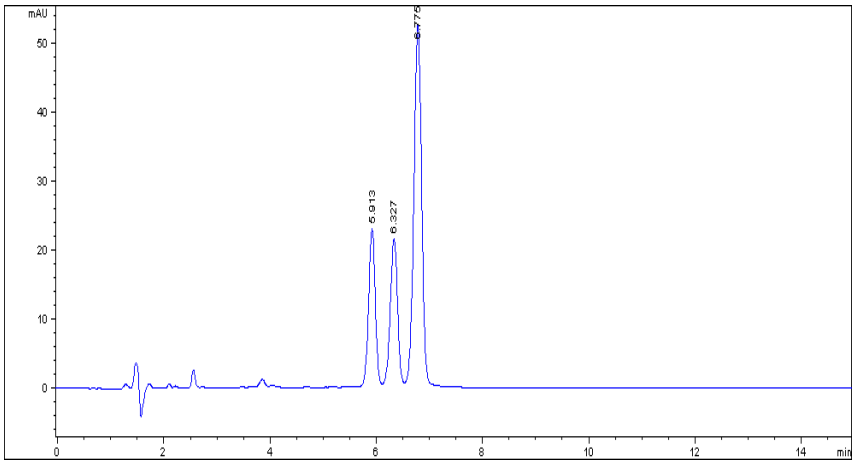
Accurately weigh 0.2 g of the fine powder in a stoppered conical flask. Accurately add 10 mL of methanol, weigh, heat under reflux for 30 minutes, allow to cool, weigh again, replenish the lost weight with methanol, mix well and centrifuge. Accurately measure 1 mL of the supernatant in a 20 mL volumetric flask, dilute with methanol to volume and mix well.

Chromatographic conditions

- Column: ZORBAX XDB C8 4.6×150 mm, 5 µm (993967-906)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-4% glacial acetic acid (45:55)
- Detector wavelength: 430 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 diode-array detector
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU*s)	n	USP T_f
Curcumin	3.517	6.775	52.29	525.7	10585	0.97