

Ganmao Tuire Granules (*Ganmao Tuire Keli*) – 感冒退热颗粒

Sample source

Commercially available Ganmao Tuire Granules

Chemical reference substances

Forsythin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110821-200305)

Preparation of test solution

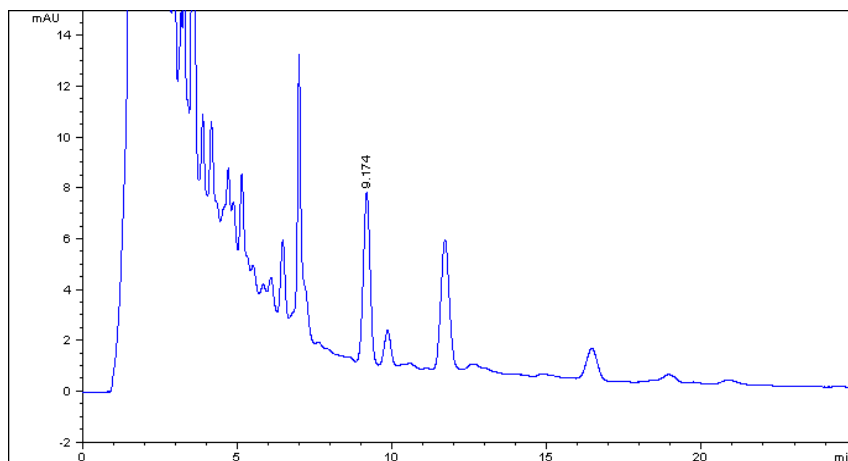
Accurately weigh 1.25 g of the granules without sucrose and grind to a fine power. Heat under reflux with two 25-mL quantities of methanol for 30 minutes, filter. Wash the filter funnel and the residue with 15 mL of methanol in portions, combine the washings and the filtrates, and evaporate to dryness. Dissolve the residue in 10 mL of 50 % ethanol, apply to a column (1 cm in diameter) packed with neutral alumina (100-200 mesh, 3 g), elute with 70 mL of 50 % ethanol, and collect the eluents. Evaporate to dryness and dissolve the residue in 50 % methanol, transfer to a 25 mL volumetric flask and dilute with 50 % ethanol to volume, mix well, filter, use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 25 °C
- Mobile phase: acetonitrile-water (21:79)
- Detector wavelength: 277 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
Forsythin	5.116	9.174	6.73	102.1	8592	0.96