

# Common Aucklandia Root (*Radix Aucklandiae*) – 木香

## Sample source

Commercially available Common Aucklandia Root

## Chemical reference substances

1. Costunolide, 2. Dehydrocostus-lactone (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1. 111524-200101, 2. 111525-200103)

## Preparation of test solution

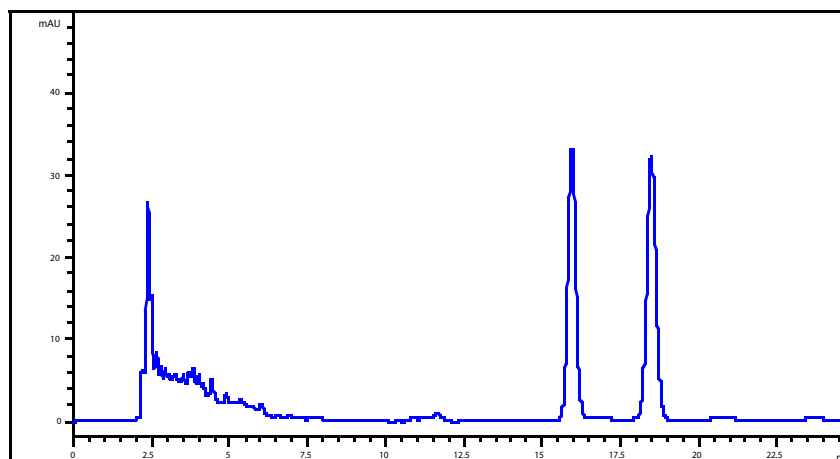
Accurately weigh 0.3 g of the powder in a stoppered conical flask, accurately add 50 mL of methanol, stopper tightly and weigh. Allow to soak overnight, treat ultrasonically for 30 minutes, allow to cool and weigh again, replenish the lost weight with methanol, mix well, filter, and use the filtrate as the test solution.

## Chromatographic conditions

- Column: ZORBAX Eclipse Plus C18, 4.6×250 mm, 5 µm (959990-902)
- Column temperature: 25 °C
- Mobile phase: methanol-water (65:35)
- Detector wavelength: 225 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)	Rs	n	USP T <sub>r</sub>
Costunolide	15.946	33.08		18464	1.02
Dehydrocostus- lactone	18.491	31.37	5.0	19368	1.02