

Red Tangerine Peel (*Exocarpium Citri Rubrum*) – 橘紅

Sample source

Commercially available Red Tangerine Peel

Chemical reference substances

hesperidin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 110722-200309)

Preparation of test solution

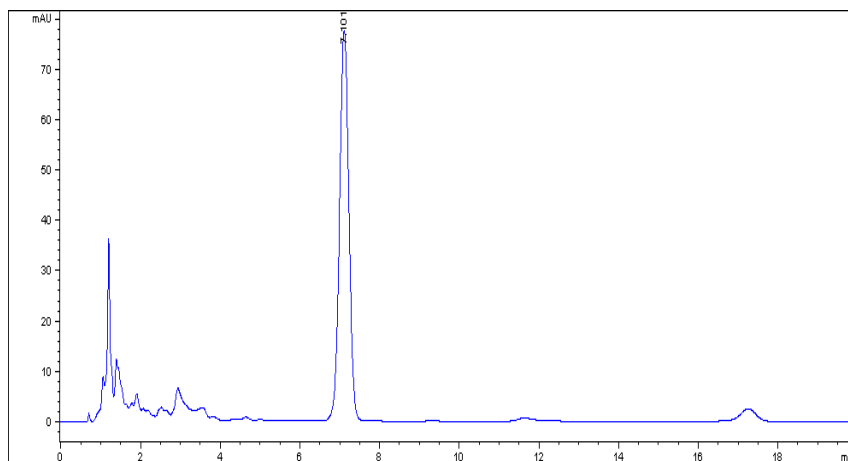
Accurately weigh about 0.2 g of the powder in a conical flask, accurately add 20 mL of methanol, heat and reflux for 1 hour, allow to cool, transfer to a 50 mL volumetric flask, wash the container and the residue with a little methanol for several times, add the washings to the same volumetric flask, add methanol 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: methanol-water (40:60)
- Detector wavelength: 248 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 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 _r
Hesperidin	4.918	7.101	77.70	1260.8	4510	1.00