Baohe Watered Pills *(Baohe Wan (Shuiwan))* – 保和丸（水丸）

Sample source

Commercially available Baohe Watered Pills

Chemical reference substances

Hesperidin (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 0721-200211)

Preparation of test solution

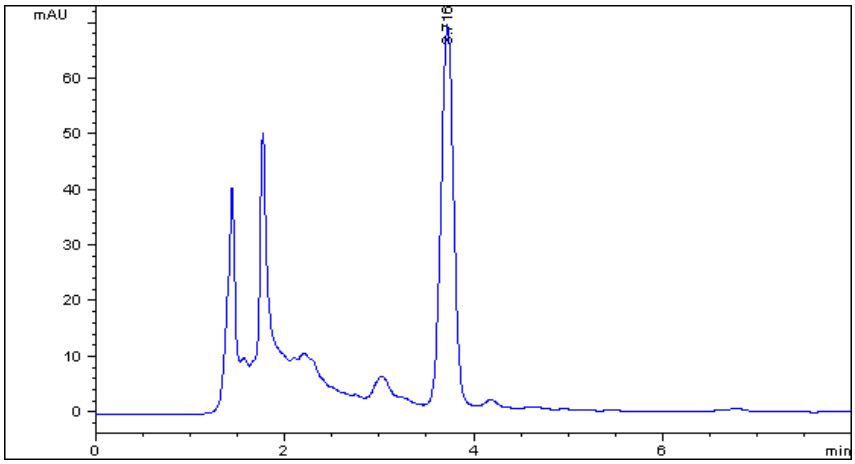
Grind a quantity of the pills to a fine powder and mix well. Accurately weigh about 2 g of the powder in a Soxhlet extractor, add 80 mL of petroleum ether (60-90 °C), heat under reflux for 2-3 hours. Discard the petroleum ether extract and evaporate the residue to dryness, add 80 mL of methanol, heat under reflux until the extract solution is colorless, allow to cool and filter. Transfer the filtrate to a 100 mL of a volumetric flask, wash the container with a small quantity of methanol several times, filter the washings into the same flask, dilute with methanol to volume and mix well. Accurately transfer 5 mL to a 10 mL volumetric flask, dilute with mobile phase to volume. Mix well, filter and use the filtrate as the test solution.

Chromatographic conditions

- Column: ZORBAX SB C18 4.6×150 mm, 5 µm (883975-902)
- Column temperature: 40 °C
- Mobile phase: methanol-glacial acetic acid-water (38:6:56)
- Detector wavelength: 283 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 thermostatted 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_f
Hesperidin		3.716	68.46	631.6	3861	1.00