

The Contents of Parishin, Parishin B and Parishin C in Traditional
Decoctions and Commercial Extracts of Gastrodiae Rhizoma

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ABSTRACT

The contents of parishin, parishin B and parishin C in six traditional decoctions and six commercial extracts of Gastrodiae Rhizoma were analyzed by high performance liquid chromatography. Separation and quantitation were performed on a Cosmosil 5C₁₈-AR column by gradient elution with varied ratios of 0.1% (v/v) phosphoric acid : methanol as the mobile phase at a flow rate of 1.0 mL/min and detection at 222 nm. Sulfamethoxypyridazine was used as the internal standard.

The contents of parishin, parishin B and parishin C in traditional decoctions of Gastrodiae Rhizoma were 2.7 ± 0.5 mg/g, 2.3 ± 0.2 mg/g and 1.6 ± 0.3 mg/g, whereas commercial extracts contained 6.9 ± 0.9 mg/g, 2.7 ± 0.3 mg/g and 1.6 ± 0.1 mg/g, respectively. Based on our results, the maximum daily doses of parishin, parishin B and parishin C in traditional decoctions of Gastrodiae Rhizoma were 24.1 ± 4.5 mg, 20.4 ± 2.0 mg and 14.4 ± 2.6 mg compared to 15.6 ± 1.4 mg, 6.5 ± 1.1 mg and 4.1 ± 0.7 mg in commercial extracts, respectively. The daily doses of parishin, parishin B and parishin C were higher in traditional decoctions than in commercial extracts.