<P-0702-08>

Determination of Rosmarinic acid and Caffeic Acid from *Perilla frutescens* var. *japonica* HARA by High Performance Liquid Chromatography

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The leaves of *Perilla frutescens* var. *japonica* HARA (Labiatae) have been used as a traditional medicinal herb from China, Korea and Japan. They have been used as folk remedies for cough, allergy,digestion, food poisoning, intestinal disorders. In this study, a HPLC method for the simultaneous determination of rosmarinic acid and caffeic acid in Perilla leaves wasdescribed. Chromatographic separation was performed using a mixture of methanol, water and formic acid (35:64.2:0.8) with a reversed-phase column (Gemini C18, 4.6*150 mm, 3 ㎛). The analytes were detected at UV (280nm). Linear dynamic range was 1-100 μg/mL (R^2=0.9996). The RSDs for intra- and inter-day assays were found to be of satisfactory results (1.79-4.07%). The contents of rosmarinic and caffeic acid was 0.877 mg/g and 0.954 mg/g, respectively. The recoveries of rosmarinic and caffeic acid from perilla leaves were 97.12-99.60% and 95.38-100.18%, respectively.