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Development of analytical method and validation using HPLC/PDA for distinguishing between *Artemisiae argyi* Folium and *Artemisiae iwayomogi* Herba

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The genus of *Artemisiae* was used either health food or medicinal plant for the treatment of stomachache, fever, pain, asthma, enteritis, and bronchitis. In this study, we developed an HPLC/PDA method by using seven marker compounds [chlorogenic acid (1), hyperoside (2), 3,4-di-O-caffeoylquinic acid (3), 3,5-di-O-caffeoylquinic acid (4), 1,5-di-O-caffeoylquinic acid (5), 4,5-di-O-caffeoylquinic acid (6) and eupatilin (7)]. Seven marker compounds were well separated with a Kinetex C18 (250x4.6 mm, 5 µm) by gradient elution using 0.3% formic acid in water and acetonitrile as mobile phase. The flow rate was 1.0 mL/min and the UV detector wavelength was set at 327 nm. The method was successfully used to distinguish between *Artemisiae argyi* Folium and *Artemisiae iwayomogi* Herba by qualification of these marker compounds 1-7. Furthermore, this method also evaluated the linearity, recovery, precision, accuracy, stability and robustness. In conclusion, the results revealed the successful identification of the two herbal species according to qualification of seven marker compounds (1-7).

Biography

Mi Hee Woo is a Professor at the College of Pharmacy, Catholic University of Daegu, Republic of Korea. She obtained her MS degree in Pharmacy from Catholic University of Daegu, Republic of Korea, and PhD degree in Pharmacy from Yeungnam University, Republic of Korea. She is perennially engaged in research and teaching for spectroscopy, analytical chemistry, and natural pharmaceutical chemistry in the College of Pharmacy. Her research activities deal with development of new methods for quality control from traditional herbal medicine by chromatographic techniques. Furthermore, her scientific interest is focused on the separation, purification, and identification of new bioactive natural products from herbal medicine.

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