

## **CHARACTERIZATION OF PHENOLIC ACIDS AND FLAVONOIDS IN ETHYL ACETATE FRACTION OF *ASTER GLEHNI***

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**A***ster glehni* is widely distributed in Korea. However, detailed information on phenolic compounds of this plant are lacking. We identified phenolic acids and flavonoids in an ethyl acetate extract of *Aster glehni*. Phytochemicals were extracted from leaves into methanol, and an ethyl acetate extract was subsequently prepared. Phenolic acids and flavonoids were identified via gas chromatography-mass spectrometry (GC-MS) and liquid chromatography-tandem mass spectrometry (LC-MS/MS), respectively. Caffeic, *p*-coumaric acid, protocatechuic acid, 4-hydroxybenzoic acid, and salicylic acid were the major phenolic acids, and the levels of astragalgin, hyperoside, kaempferol, and rutin were the highest among the 9 identified flavonoids. These results suggest that the ethyl acetate fraction of *Aster glehni* leaves may exhibit significant antioxidant and health-promoting activity, which is attributable to the high levels of phenolic acids and flavonoids.

## **BIOGRAPHY**

Kisok Kim has completed his PhD from Seoul National University, Korea. He is a research scholar of Keimyung University, Korea. He has over 50 publications in reputed journals.

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