



## Application of UPLC to Separation and Analysis of Ginsenosides from Cultivated Ginseng and Forest-grown Wild Ginseng

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**SUMMARY.** In the past years, much attention has been paid to *Panax ginseng*, mainly referring to Cultivated Ginseng (CG), but few studies have also been focused on Forest-grown Wild Ginseng (FWG). FWG has been included in the 2010 edition Pharmacopoeia of The Peoples Republic of China, as a substitute for wild ginseng. This paper compared and determined the variety and changes of ginsenosides in CG and FWG by UPLC. The results demonstrated that the content of every ginsenoside was the highest at ten-year-old FWG, but the lowest at fourteen-year-old FWG. Pharmacological activity varies for different ginsenosides, therefore, this study will provide a scientific reference for clinical applications of FWG.

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**KEY WORDS:** Cultivated Ginseng, Forest-grown Wild Ginseng, UPLC, Ginsenosides.

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