

***Mitochondrial nad 7 intron 4 region*을 통한 분자생물학적  
고려인삼품종 “천풍”검증**

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**Molecular identification of Korean ginseng cultivar  
"Chunpoong" using the mitochondrial *nad 7 intron 4 region***

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Korean ginseng(*Panax ginseng*) is one of the most important medicinal plants in Orient. Among the nine cultivars of Korea ginseng, Chunpoong commands a much greater market value and has been planted widely. A rapid and reliable method for discriminating the Chunpoong cultivar was developed by exploiting a single nucleotide polymorphism (SNP) in the mitochondrial *nad7 intron 4 region* of nine Korea ginseng cultivars using universal primers. A SNP was detected between Chunpoong and other cultivars and modified allele-specific primers were designed from this SNP site to effective method for the genetic identification of the Chunpoong cultivar of ginseng.

**Key word** : *Panax ginseng*; Chunpoong cultivar; *nad7 intron*; Single nucleotide polymorphisms; multiplex-PCR