

Phylogenetic Analysis of *Angelicae Tenuissimae Radix* (Go-bon) on the Basis of ITS and *trnL-F* Sequences

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Some species in the genus *Ligusticum* have been used for oriental medicinal purposes in the name of “Go-bon”. Among the *Ligusticum* species, three species, *Ligusticum tenuissimum*, *Ligusticum sinense*, *Ligusticum jeholense* were used as publicly certified medicinal material in Korea, China, and Japan. Phylogenetic analyses of 39 “Go-bon” samples which are commercially marketed were done based on tRNA coding sequences (*trnL-F*) in chloroplast DNA and internal transcribed spacer (ITS) sequence in chromosomal DNA using the neighbor joining method and the maximum parsimony method. In this study, we can conclude that the three medicinally meaningful *Ligusticum* species showed similar phylogenetic relationship to each other and they can be used as the same medicinal purposes. But, some *Ligusticum* species showed variously distant and polyphyletic relationship, so they should be differentiated from the three medicinal species.

This research was supported by a grant (08172KFDA265) from Korea Food & Drug Administration in 2008.