

## Studies on Adulteration and Misusage of Gardeniae Fructus in Market

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### ABSTRACT

The botanical origin of Gardeniae Fructus is dried mature fruits of *Gardenia jasminoides* Ellis. The pharmacological activities of *G. jasminoides* Ellis are antioxidative, anti-inflammatory and hypoglycemic ones. Because of morphological similarity of Gardenia species, adulterants of Gardeniae Fructus were found and reported in literatures. The dried mature fruits of *G. jasminoides* Ellis var. *grandiflora* Nakai are often misused as Gardeniae Fructus. In this study, we applied morphological method, pharmacognostical anatomical method and histological microscopy to distinguish Gardeniae Fructus from its counterfeits. The results showed that all of the twenty-one samples were *Gardenia jasminoides* Ellis, which is still the main supply in the current Taiwan market.

Key words: *Gardenia jasminoides* Ellis, Gardeniae Fructus, *Gardenia jasminoides* Ellis var. *grandiflora* Nakai, microscopic identified

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