

Analysis of Functional Compounds, Antioxidant Capacity, and Scavenging Activity of DPPH Radical of “Gusuibu”

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Abstract

There are six Gusuibus used to determine the content of functional components including of polyphenols and naringin, the activity of antioxidant and the ability to scavenge DPPH radical. The result will used to select better variety for product development in the future. The content of polyphenols of *Drynaria fortunei* and *Pseudodrynaria coronans* with the level of 4.46 and 10.00 mg gallic acid/g. The content of polyphenols of *Davallia formosana*, *Davallia solida*, *Davallia mariesii*, and *Humata griffithiana* with the level of 17.74, 17.40, 19.11 and 10.35 mg gallic acid/g. The content of naringin of *D. fortunei* and *P. coronans* are showed the number of 27.84 and 0.43 mg/g. It is showed better antioxidant activity of *D. mariesii* with the level of 139.50 mg trolox/g. The DPPH radical scavenging capacity of *D. solida*, *D. formosana*, and *D. mariesii* have better performance with the level of 369.90, 362.30, and 355.15 mg BHT/g.

Key words : Gusuibu, Naringin, Antioxidant capacity