

Antioxidant Activities of Korean Propolis

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Propolis, a natural product derived from plant resins collected by honeybees, has been used for thousands of years in traditional medicine all over the world. The composition of the propolis depends upon the vegetation of the area from where it was collected and on the bee species.

In this study, propolis samples were collected from the three region of Korean Peninsula, such as central, southern, and Jeju island. Ethanol extracts of propolis (EEP) were prepared and evaluated for antioxidant activity by 1,1-diphenyl-2-picrylhydrazyl (DPPH) free radical scavenging assay system, deoxyribose OH radical scavenging assay system, and lipoperoxydation inhibition systems. EEP from central and south region had strong free radicals scavenging effect and lipoperoxydation inhibition effects.