Antioxidative Effects of Extracts from *Ixeris dentata*

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The whole plant of *Ixeris dentata*, a typical oriental herb, has been used for treatment of pneumonia, contusion, tumor and hepatitis\(^1,2\). It also has been used for treatment of allergic diseases as a folk therapy in Korea. *I. dentata* is known to have aliphatics, triterpenoids and sesquiterpene glycosides in its composition\(^3\). The antioxidative effects of water- and ethanol-extracts from *I. dentata* were analyzed with 2,2-diphenyl-1-picrylhydrazyl (DPPH) and comparisons were made on the basis of \(RC_{80}\) value which indicated the amount required for 80% reduction of DPPH. The \(RC_{80}\) of the ethanol extract from *I. dentata* leaf was 32.26\(\mu g/ml\). While the \(RC_{80}\) of ascorbic acid and glutathione, well-known antioxidants was 15.11 and 52.40\(\mu g/ml\), respectively. However, in case of the water extract from *I. dentata* root the value was 547.77\(\mu g/ml\). On the whole, groups of ethanol extracts resulted in a higher scavenging activity than the water extracts. Especially, the extracts from leaf had an excellent activity compared with that of *I. dentata* stem or root. It is suggested that *I. dentata* is useful as a source material for nutraceutical and pharmaceutical applications.