

The effects of the different cultivated area and period in *Scutellaria baicalensis*¹

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Abstract

The purposes of this research were to investigate various cultivated environments and different seasons effectiveness to the yield and the content of active ingredients of *Scutellaria baicalensis* Georgi. At Hualien County, the results showed the average weight per plant 81.3 g as well as the average root weight per plant 23.4 g was the highest at Ji-an township. The best yield of active ingredient baicalin, 26.8 mg g⁻¹, at Zue-shue Township. As to the baicalein, another active ingredient, the best yield was 4.5 mg g⁻¹ at Ji-an Township. The third active ingredient wogonin with 3.5 mg g⁻¹ was the best at the Tzo-shi Township. Furthermore, the antioxidation capability of the *S. baicalensis* Georgi, An-ton Township offered best quality. The spring was the better than autumn for the *S. baicalensis* Georgi to have the above mentioned characters.

keywords : *Scutellaria baicalensis*, antioxidant capability, active ingredient

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