

Medicinal Use and Chemical Composition of *Scutellaria baicalensis* Species**Authors:** [Turgut Kılıç¹](#), [Cenk Paşa²](#) and [Ahmet C. Gören³](#)**Affiliation:** ¹Department Science Education, Necatibey Faculty of Education, Balıkesir University, Balıkesir, Türkiye;²Department of Plant and Animal Production, Altınoluk Vocational School, Medicinal and Aromatical Plant Programme, Balıkesir University, Edremit, Balıkesir, Türkiye; ³Department of Chemistry, Faculty of Basic Sciences, Gebze Technical University, Gebze-Kocaeli, Türkiyetkilic@balikesir.edu.tr

This work deals with the medicinal use and chemical composition of the *Scutellaria* genus. The *Scutellaria* genus, which belongs to the Lamiaceae family, is represented by approximately 360 species. In Turkey, the *Scutellaria* genus includes 15 species belonging to 4 sections and a total of 21 subspecies of these species [1,2]. *Scutellaria baicalensis*, known also as Huang-Qin is a traditional Chinese plant used in medicine for at least 2000 years. The plant is widely distributed in Japan, Korea, Mongolia and Russia, and is listed in Chinese Pharmacopoeia, European Pharmacopoeia and British Pharmacopoeia [3]. Medicinal plants in the *Scutellaria* genus are used in the treatment of various diseases such as gastrointestinal diseases (dysentery, hemorrhoids, stomach pain, constipation), liver and bile diseases (jaundice, hepatitis), neurological diseases (including epilepsy, spasm, insomnia, hysteria). It is also stated in the literature that it is also used in respiratory diseases (colds, respiratory tract infections), infectious diseases (carbuncles, furunculosis) and traumatic injuries. It has been stated that some species of *Scutellaria* have a long history as traditional and herbal medicine to treat many diseases such as cancer, liver and stomach disorders, respiratory, neurological, cardiovascular diseases and infection [4]. It has been stated that *S. baicalensis* has a very good antioxidant activity thanks to its rich flavonoid content [5]. Some of the diterpenes in the *Scutellaria* genus are scutesiprine and barbatin A-E, and their compounds have been stated to have anticancer effects [6,7]. The main bioactive compounds of *S. baicalensis* are flavonoids. The total flavonoid content in plant roots varies between 15-20 %. Flavonoids are 12-16 % baicalin, baicalayin, norwoginin, oroxylin A, β -sitosterol and 3-4 % wogonocyte [8].

Keywords: *Scutellaria baicalensis*; medicinal uses.**References**

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