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The Antioxidant Activity of Ethanol Extract Fractions of *Salvia cerino pruinosa* var. *cerino pruinosa*

Hatice CAKIRCA[1], Esra YARIŞ[2], Hilal Saruhan FIDAN[3], Mehmet FIRAT[4], Hüseyin ALKAN[3], Sevgi İRTEGÜN[5], Abdulselam ERTAŞ[2]
[1]Dicle University, Faculty of Pharmacy, Department of Analytical Chemistry, Turkey
[2]Dicle University, Faculty of Pharmacy, Department of Pharmacognosy, Turkey
[3]Dicle University, Faculty of Pharmacy, Department of Biochemistry, Turkey
[4]Yüzüncü Yıl University, Faculty of Education, Department of Biology, Turkey
[5]Dicle University, Faculty of Medicinal, Medicinal of Biology, Turkey
mhalkan@dicle.edu.tr

Aim of the study: In this research, antioxidant activities of ethanol extract fractions obtained from *Salvia cerino pruinosa* var. *cerino pruinosa*were compared.

Material and Methods:ABTS cation radical decolorisation method, cupric reducing antioxidant capacity assays and DPPH free radical scavenging activity were carried out to indicate the antioxidant activity. Here, only *DPPH Free radical scavenging activity method* will be explained*:* 0.1 mM, 160 µL of DPPH solution in methanol was added to 40 µL of sample solutions in methanol at different concentrations. After 30 min, the absorbance values were read at 517 nm.

Results: From the aerial parts of *Salvia cerino pruinosa* var. *cerino pruinosa* ethanol extract, 88 fractions were gained. And also 77 fractions were gained from the roots ethanol extract of this plant. According to the applied thin layer chromatography results, totally 14 fractions from ethanol extract of aerial parts and 13 fractions from the root extract by combining similar fractions. And also, antioxidant activities were studied. In the DPPH free radical scavenging activity, it was determined that 54-60, 61-64, 65-69, 70-75, 76-79, 80-85, 86-88 numbered fractions from the extract of *S. cerino pruinosa* var. *cerino pruinosa* plant's aerial part, showed higher activity than BHT used as standart. And also 18-24, 25-28, 51-55 fractions gained from root of *S. cerino pruinosa* var. *elazigensis* extract showed higher activity than BHT used as standart. In the ABTS cation radical scavenging activity, it was determined that the 48-53, 54-60, 65-69, 76-79 fragments which were gained from the of the aerial part's ethanol extract and 45-50 numbered fractions were gained from the of the root's ethanol extract, showed higher activity than BHT and α-TOC compounds used as standards. When looked at the result of CUPRAC-Copper(II) reduction capacity, aerial parts ethanol extract's 48-53, 65-69, 76-79 numbered fractions and the plant's root ethanol extract's 45-50, 51-55 numbered fractions have the most active copper(II) reduction capacity was determined. According to the activity results generally the aerial parts activities was higher than the root fractions activities was shown.

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