〈原　著〉

生薬抽出物のスーパーオキシド消去作用

伊藤　三明，安藤　靖子，広瀬　統，
大隅　和寿，岡田　富雄，小西　宏明*

Superoxide-Scavenging Activity of Crude Drug Extracts

Mitsuaki ITO,* Yasuko ANDO,* Osamu HIROSE*
Kazuhisa OSUMI,* Tomio OKADA,* Hiroaki KONISHI*

Abstract

Superoxide(O_2^-)-scavenging activities of 27 crude drug extracts were studied by 3 different O_2^- assay; the Nitrite method, the NBT method, and the ESR method.

Extracts of Chouji, Gennoshouko, and Daiou showed high O_2^--scavenging activities with all the 3 methods. These activities were not reduced by autoclave treatment at 120°C for 15 min. In the ESR method the activities of these 3 crude drug extracts were about 1/15 to 1/20 of that of superoxide dismutase from bovine erythrocytes.

And also extracts of Chouji, Gennoshouko, and Daiou scavenged O_2^- induced by ultraviolet light irradiation.

Key words: crude drug, superoxide-scavenging activity, superoxide dismutase, ultraviolet