

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

**Some Properties of Cu, Zn-Superoxide
Dismutase from Sheep Erythrocyte**

Leman TARHAN



Department of Chemistry, Faculty of Arts
and Science,

Dokuz Eylül University 35150 Buca, Izmir-
TURKEY

M. Nalan TÜZMEN

Department of Chemistry, Faculty of Arts
and Science,

Süleyman Demirel University Isparta-
TURKEY

 [Keywords](#)
 [Authors](#)



chem@tubitak.gov.tr

[Scientific Journals](#)
[Home Page](#)

Abstract: Superoxide dismutase (SOD) was isolated from sheep erythrocyte. SOD activity was measured under the optimized assay conditions by observing the variations of autoxidation rate of 6-hydroxydopamine (6-OHDA). The enzyme was characterized as containing copper and zinc and was insensitive to chloroform-ethanol mixture but inhibited by cyanide and hydrogen peroxide. The activity variations and stability properties of sheep erythrocyte Cu, Zn-SOD were investigated under the optimized activity assay conditions by observing inhibition change at the autoxidation rate of 6-OHDA. The optimum pH and temperature of sheep erythrocyte Cu, Zn-SOD were