Glutathione Peroxidase from the Liver of Japanese Sea Bass

*Lateolabrax japonicus*

Takeshi Nagai*, Takakiyo Yukimoto, and Nobutaka Suzuki

Department of Food Science and Technology, National Fisheries University, Shimonoseki, Yamaguchi 7596595, Japan. Fax: +81-832-33-1816. E-mail: machin@fish-u.ac.jp

* Author for correspondence and reprint requests

Z. Naturforsch. 57c, 172–176 (2002); received August 27/October 10, 2001

Glutathione Peroxidase, Japanese Sea Bass, Subunit Composition

Glutathione peroxidase (EC 1.11.1.9) present in the liver of Japanese sea bass (*Lateolabrax japonicus*) was extracted and purified by phenyl-toyopearl 650M, butyl-toyopearl 650M and DEAE-toyopearl 650M column chromatography. The molecular weight of the enzyme was estimated to be about 70 kDa by gel filtration by toyopearl HW-55F. On SDS-PAGE, this enzyme was composed of two identical subunits with 35 kDa and was a dimer. This enzyme was a typical SH-enzyme that was inhibited by iodoacetic acid, PCMB, DTNB, and Hg.