

P24

Monitoring on Heavy Metal of Shellfish in Gyeongnam Area

Jong-Hwa Chung*, Hwang-Chan Bae, Gang-Ja Ha, Hui-Geun Cha,
Ho-Hyek Chung, Young-Rok Kim and Hyun Kim

Gyeongnam Health & Environmental Research Institute

This monitoring was carried out to investigate the contents of heavy metal in the shellfishes, oyster, butter clam, etc., from Jan. to Sep. 2003 in Gyeongnam area. A total of 61 samples were collected from fishery cooperative's joint market and marine products wholesale market. Heavy metals, total mercury(Hg), lead(Pb) and cadmiun(Cd) were analyzed to estimate safety of shellfishes. Total mercury was analyzed by automatic mercury analyzer, lead and cadmiun by Inductively Coupled Plasma(ICP). As a results of heavy metal analysis, the contents of Hg[minimum~maximum(mean)] were 0.0003~0.217(0.0136), Pb 0.044 ~ 1.350(0.327), Cd N.D~1.902(0.169) mg/Kg respectively. In Guidelines of seafood standard, Hg is allowed below 0.5, Pb 2.0, Cd 2.0 mg/Kg respectively. Maximum detected contents in this study, Hg was 0.217 mg/Kg from oyster, Pb 1.35 mg/Kg from butter clam, Cd was 1.902 mg/Kg from turban shell, but all of heavy metal contents were belowed allowed guideline contents.