



“Gh. Asachi” Technical University of Iasi, Romania

DETECTION OF SOME POLLUTANTS FROM BLACK SEA MUSSELS

Gabriela Stanciu^{1*}, Magdalena Mititelu²

¹*Department of Chemistry, Ovidius University of Constanta, 124, Blvd. Mamaia, 8700, Constanta, Romania,* ²*Department of Pharmacy, Ovidius University of Constanta, 124, Blvd. Mamaia, 8700, Constanta, Romania*

Abstract

This work presents aspects regarding the pollution with pesticides and heavy metals (Cd, Pb, Cu and Zn) of mussels tissue (*Mytilus galloprovincialis*) collected from different zones of the Romanian Black Sea Coast: Mamaia, Tomis Harbour and Agigea. The heavy metals were analysed using atomic absorption spectrometry. For the pesticides analysis was used a FISIONS gas chromatograph equipped with an electron capture detection and a capillary chromatograph column filled with mixture of silicone oils on chromosorb WHP.

Keywords: heavy metals, pesticides, *Mytilus galloprovincialis*

* Author to whom all correspondence should be addressed: e-mail:
gstanciu@univ-ovidius.ro