

Concentration of Some Hazardous Metals (Cd, Pb and Ni) in Egg Samples Analysed from Poultry Farms Located near Automechanics Workshops, Industrial Areas and Roadsides in Kano and Kaduna

Authors : M. I. Mohammed, A. M. Sani, A. S. Bayero

Abstract : The aim of this work is to study the effect of farm site location by determining the levels of hazardous metals in poultry eggs samples collected near auto mechanics, industrial areas and roadsides in Kaduna and Kano States of Nigeria. Atomic absorption spectrophotometer was used for the analysis of the metals. The mean concentration ranges of the metals analysed in egg white and egg yolk were Pb: 0.05-0.10mgkg⁻¹, Ni: 0.10-0.30mgkg⁻¹ and Cd: not detected -0.03mgkg⁻¹. It was concluded that farm site locations has very low significant effect on the concentration of hazardous metals level.

Keywords : albumen, Egg, hazardous metals, poultry farms

Conference Title : ICSR2020 : International Conference on Scientific Research and Development

Conference Location : Chicago, United States

Conference Dates : December 12-13, 2020