

Radio Isotope Photon Excited Energy Dispersive X-ray Fluorescence Technique for the Analysis of Organic Matrices

Abstract:

A preliminary study of microbiological quality of honey was carried out using 26 samples obtained from the National Bee Keeping Research Station. Total viable counts (TVC) of aerobic bacteria, yeasts and moulds, and Clostridium species were done. Of the 26 samples, 24 (92.3%) had a TVC ranging from 3×10^{-8} to 7×10^7 colony forming units (cfu) per gram of honey. Two samples did not yield any microorganisms. Of the 24 positive samples, 9 (37.5%) were found to contain Clostridium species per gram while eight (33.3%) were positive for moulds with counts ranging from 10-100 c.f.u / g. No yeasts were detected. In addition, three samples yielded the three types of microorganisms