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Some metal levels of organic milk and dairy products consumed in Turkey

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In the frame of this study, what was aimed was finding the levels of aluminium, arsenic, cadmium and lead in organic milk, cheese and butter which were presented to having been sold in the markets. Furthermore, in this study, between the March 2010 and February 2011, in every three months' period for every product type, different party numbered 9 organic example products, which were in total 36 (12 milk, 12 cheese and 12 butter sample) were collected. After these products had been converted into the forms which could be analysed by the way of microwave burning, their metal levels were found by the use of Graphite Furnace AAS. As a result of the analysis, the level of Al (33 samples), As (34 samples), Cd (33) and Pb (24) in most of organically produced milk, cheese and butter is under the Limit Of Detection (LOD). The element detection limits of the Graphite Furnace AAS (Limit of detection, LOD) (in $\mu\text{g.L}^{-1}$) for Al, As, Cd and Pb were 0.02; 0.001; 0.001 and 0.02, respectively. The median Pb level was 0,001 ppm (n:3) in organic milk; 0.008 ppm (n:7) in organic cheese. In these comparisons, it was found that there was no difference from the point of Pb in statistical view ($p>0.05$). Besides, it was seen that 1 example in organic cheese and 1 example in organic butter exceeded acceptable limits from the view of Pb.

Biography

Emine Baydan is a Professor in Veterinary Faculty and completed her PhD in 1989 from Ankara University. She has published more than 20 papers in reputed journals. She is also a Member in Turkish Society of Toxicology, Turkish Pharmacological Society and Veterinary Pharmacology and Toxicology Association.

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