Assessment of Cadmium and Lead in Buffalo’s Raw Milk and its Rural Products in some villages of Sohag and Qena Governorates, Egypt

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Abstract:

Raw buffalo’s milk and house-made rural milk products including, Laban Rayeb, Cream, Samna, Kareish cheese and Mish cheese (252 samples) were collected from 14 villages of Sohag and Qena Governorates. These samples were applied to assess Cadmium and Lead. It was found that the average contents of Cadmium and Lead were 0.023 ppm and 0.09 ppm in Buffalo’s milk; 0.022 ppm and 0.065 ppm in Laban rayeb; 0.025 ppm and 0.09 ppm in Cream; 0.024 ppm and 0.088 ppm in Samna; 0.061 ppm and 1.841 ppm in Kareish cheese, and 0.049 ppm and 2.104 ppm in Mish cheese, respectively. Statistical analysis showed that the variations among investigated villages were highly significant except of Cadmium values in Laban Rayeb were significant. These variations may be due to the different environmental condition of each village.

Keywords:

milk-laban rayeb-Samna-cream-Kareish cheese-Mish cheese-Cadmium-Lead

Published In:

2nd International Conf. on food safety and technology, vol, 93, N 4 (c). 1-11