

Determination of AFM₁ in the Raw Milk Producing in Dairy Farms in Chahar-Mahal-Bakhtiari Province Using ELISA.

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Important role of milk in human, especially infancy nutrition is well known. On the other hand, contamination of milk with aflatoxins is considered as a potential risk for human health. In this study the presence of aflatoxin M₁ in 86 samples of raw milk obtained from 86 dairy farms in Chahar Mahal & Bakhtiari by ELISA were analysed. In 41 out of 86 samples (%47.70), the presence of aflatoxin M₁ was detected in concentration ranging between 2.868-176.192 ng/l. AFM₁ level in 16 samples (18.6%) of positive samples were higher than the standard limit (0.05 mg/l) accepted by EU.

In addition, the results showed that there were significant difference between AFM₁ levels in milk with number of cow's in herds and milk yield per kg a day (P<0.05).

Key Words : Aflatoxin M₁, Milk

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