

## Determination of AFM<sub>1</sub> in the Raw Milk Producing in Dairy Farms in Chahar-Mahal-Bakhtiari Province Using ELISA.

Rahimi, E. <sup>1\*</sup>, Karim, G. <sup>2</sup>

1- Department of Food Hygiene, School of Veterinary Medicine, Islamic Azad University of Shahre-Kord

2- Department of Food Hygiene, School of Specialized Veterinary Sciences, Islamic Azad University, Sciences & Research Campus of Tehran.

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 M<sub>1</sub> 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 M<sub>1</sub> was detected in concentration ranging between 2.868-176.192 ng/l. AFM<sub>1</sub> 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 AFM<sub>1</sub> levels in milk with number of cow's in herds and milk yield per kg a day (P<0.05).

**Key Words :** Aflatoxin M<sub>1</sub>, Milk

---

\*Corresponding author E-mail address: Ebrahimrahimi55@yahoo.com