

عنوان مقاله:

Health Effects of Aflatoxin M₁ in Milk and Milk Products and Novel Methods to Control of Aflatoxin M₁: A Review

محل انتشار:

کنگره بین المللی علوم غذا و سلامت عمومی (سال: 1400)

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خلاصه مقاله:

Milk and milk products are rich sources of vitamins, proteins and calcium that are vital to the human body. Aflatoxin M₁ (AFM₁) or milk toxin is a hydroxylated metabolite of aflatoxin B₁ from a contaminated feed. The presence of this toxin in milk has caused serious concern among nutritionists. Consumption of aflatoxin-contaminated milk (AFM₁) may lead to serious health problems in humans. AFM₁ causes various cancers such as liver cancer, damage to the nervous system and adverse effects on DNA, as well as mutagenicity and teratogenicity. In reducing the amount of aflatoxin in the product, choosing a treatment method that is effective but does not affect the organoleptic quality of milk is of particular importance. Absorption and restructuring methods such as yeast, lactic acid bacteria, enzymes, peroxide, ozone, UV light and cold plasma have been used for this purpose. In this study, they have been studied on aflatoxin M₁ and toxicology besides reducing method for aflatoxin M₁.

کلمات کلیدی:

Aflatoxin M₁; Contamination; Milk; Toxicity; Reducing; Absorption; Restructuring

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