

عنوان مقاله:

Natural Deoxynivalenol Contamination of Corn Produced in Golestan and Mogan Areas in Iran

محل انتشار:

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خلاصه مقاله:

Deoxynivalenol contamination was determined in corn produced in Golestan and Ardabil (Mogan) Provinces, Iran, in YooF-Yooa. Samples were collected from different stages of production, including before harvest, at harvest, post harvest as well as after drying. Ground sub samples were extracted with water; each extracted sample was cleaned up through an immunoaffinity column. Deoxynivalenol was estimated through reversed-phase High Performance Liquid Chromatography (HPLC). The linearity of standard curve for Δο -10,000 ng ml-1 of standard solutions was proved (RY= ∘.9999). Detection limit was 1∘ ng g-1. Recovery of the method for 1,000 and ۵00 ng g-1 spiked samples was YY".6% and ٩٣.۵% (n= Δ). Deoxynivalenol contamination was found in Y۶.٧% of samples in the range of Δ۴.F-Δ۱λ.F ng g-1. .The mean of contamination was \\18.\alpha ng g-1. This is the first report of natural DON contamination of corn from Iran

كلمات كليدى:

IRAN, Corn, Deoxynivalenol, HPLC, Natural contamination

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