

عنوان مقاله:

The Nitrate Content of Commonly Consumed Cereals in Iran

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خلاصه مقاله:

The excessive presence of nitrate in foodstuff can be potentially toxic and carcinogenic to humans. This is because about λ_°% of the nitrate that enters the human body comes from vegetables. Therefore, the present study determined the nitrate content in commonly consumed cereals (rice and wheat) by Iranians. A total of FY samples of cereals were randomly collected from major grocery stores in different cities in Iran between September YY and December ۱۵, Y_°Y_°. The methods of HPLC-UV were used to evaluate the nitrate content. The detection limit (L.O.D.) and limit of quantification (L.O.Q.) were o.oYl and o.YY mg kg-IYF, respectively. As a result, the mean nitrate level in rice samples was Δ_°.9_° mg kg-1 and in wheat was F9.9_° mg kg-IYΔ. Despite the high average levels, they were not significantly different with their standard levels. Taken together, this information could allow the establishment of a database for the .quantification of nitrate exposure and its risk-benefit determination in the Iranian population

> **کلمات کلیدی:** Nitrate; Cereals; Rice; Wheat

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