

[Available Issues](#) | [Japanese](#)>> [Publisher Site](#)

Author: [ADVANCED](#) | Volume Page
 Keyword: |



[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1881-3984

PRINT ISSN : 1344-6606

Food Science and Technology Research

Vol. 10 (2004) , No. 4 pp.410-415

[\[PDF \(1054K\)\]](#) [\[References\]](#)

Effects of Irradiation on Protein Electrophoretic Properties, Water Absorption and Cooking Quality of Dry Bean and Chickpea

[Süeda ÇELİK^{1\)}](#), [Arzu BASMAN^{1\)}](#), [Erkan YALÇIN^{1\)}](#) and [Hamit KÖKSEL^{1\)}](#)

1) *Hacettepe University, Food Engineering Department*

(Received: March 12, 2004)

(Accepted: July 31, 2004)

Effects of gamma-irradiation at doses of 1, 5, 10 kGy on electrophoretic patterns of insoluble proteins, water absorption properties and cooking quality of dry bean and chickpea samples were investigated. SDS-PAGE patterns of the samples in each variety did not differ in terms of relative mobilities. The densitometric analysis results indicated that the effects of irradiation on SDS-PAGE patterns of dry bean and chickpea proteins seem to be minor. Generally, lower irradiation doses did not significantly affect the water absorption properties of the food legumes. On the other hand, the dry and wet cooking times of the irradiated samples were found to be significantly reduced in all dry bean and chickpea samples.

Keywords: [gamma-irradiation](#), [chickpea](#), [dry bean](#), [SDS-PAGE](#), [cooking quality](#)

[\[PDF \(1054K\)\]](#) [\[References\]](#)

Download Meta of Article [\[Help\]](#)

[RIS](#)

[BibTeX](#)

To cite this article:

Effects of Irradiation on Protein Electrophoretic Properties, Water Absorption and Cooking Quality of Dry Bean and Chickpea Süeda ÇELİK, Arzu BASMAN, Erkan YALÇIN and Hamit KÖKSEL, *FSTR*. Vol. 10, 410-415. (2004) .

doi:10.3136/fstr.10.410

JOI JST.JSTAGE/fstr/10.410

Copyright (c) 2008 by Japanese Society for Food Science and Technology



[Japan Science and Technology Information Aggregator, Electronic](#)

