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Title: Effect of Germination Time and Type of Illumination on Proximate Composition of Chickpea Seed (*Cicer arietinum* L.)

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Abstract: Impact of germination time and type of illumination on proximate composition of chickpea seed was investigated. Germination time and type of illumination had highly significant influence ($p < 0.001$) on the level of moisture, protein, fat, fiber, ash and Nitrogen Free Extract (NFE) contents. Increase in germination time was associated with increase in moisture, protein, ash and fat contents and decrease in fiber and NFE contents. Moisture accumulation increased significantly ($p < 0.001$) with dark, fluorescent light and γ-irradiated seed sprouts, while green, blue and yellow lights have significant ($p < 0.001$) promotional effects on protein and fiber contents. Germination of γ-irradiated chickpea seed had significant ($p < 0.001$) promotional effect on ash and fat contents, while dark, fluorescent and yellow lights on NFE content. Interaction of the treatments (germination time X type of illumination) on all the parameters studied was also highly significant ($p < 0.001$).

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