

施硒对茄子吸收转化硒和品质的影响

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Effects of selenium application on the selenium absorption and transformation of eggplant and its qualities

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摘要

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摘要 盆栽试验结果表明,土壤施硒(0.15、0.60、3.00mg/kg)条件下,茄子的含硒量随施硒量的增加而显著增加。当施硒量为0.60和3.00mg/kg时,茄子无机硒转化成有机硒的比率下降,显著提高了茄子粗蛋白、粗脂肪和还原糖含量,增加了茄子的必需氨基酸总量,改善了茄子的品质。土壤施硒显著增加了茄子蛋氨酸、胱氨酸和丝氨酸的含量,但谷氨酸和脯氨酸的含量显著降低。

关键词: 硒 茄子 吸收 转化 品质 硒 茄子 吸收 转化 品质

Abstract: An pot experiment was carried out to study the effects of applying selenium(Se) with different three concentrations(0.15, 0.60, 3.00 (mg/kg)) on the Se absorption, transformation of eggplant (*Sonolum melongena* L.) and its qualities. The results showed that Se content in eggplant was significantly increased with the increase of the selenium concentration. Application of Se 0.6 and 3.0(mg/kg) depressed the transformation of inorganic Se to organic Se, however, the contents of crude protein, crude fat, reducing sugar and total essential amino acids in eggplant were significantly enhanced. The contents of Met, Cys and Ser in eggplant were increased by Se application, and the contents of Glu and Pro were decreased.

Keywords:

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