

氮、磷、钾肥配施对烤烟化学成分和致香物质含量的影响

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Effects of combining application of N,P,K fertilizers on chemical components and content of aroma constituents in flue-cured tobacco leaves

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摘要 田间试验以烤烟(*Nicotiana tabacum*.L.)品种K236为材料,研究了氮、磷、钾肥配施对烤烟化学成分和致香物质含量的影响。结果表明,不施肥处理烟叶内在化学成分协调性差,致香物质总量及不同种类致香物质含量都较低;单施氮、磷、钾一种肥料或任意两种肥料配施可以不同程度改善烟叶化学成分,提高烟叶中类西柏烷类和类胡萝卜素类致香物质含量;而氮、磷、钾配施处理烟叶的化学成分协调,致香物质总量和不同种类致香物质含量高。表明平衡施肥是改善烟叶化学成分,提高烟叶香气质量的基础。

关键词: 氮肥 磷肥 钾肥 烤烟 化学成分 致香物质 氮肥 磷肥 钾肥 烤烟 化学成分 致香物质

Abstract: Nitrogen(N),phosphorus(P)and potassium(K)are important nutrients for flue-cured tobacco,which play a key role in the formation of yield and quality of the leaves.However,little research was focus on the effects of fertilization on content of aroma constituents in tobacco leaves.In the present paper,a field experiment was employed to study the effects of combining application of N,P and K fertilizers on chemical components and content of aroma constituents in flue-cured tobacco leaves using a tobacco(*Nicotiana tabacum* L.)cultivar K326.The results indicated that chemical components of tobacco leaves were not harmonious,and content of total aroma constituents and different kinds of aroma constituents were the lowest in the treatment of no fertilizer(CK).Treatments of application of single fertilizer of N,P,K or combining application of any two of them could improve the chemical components and increase the content of aroma constituents of cembranoids and carotenoids.While the chemical components were more appropriate and the content of total aroma constituents and different kinds of aroma matter were higher in the treatment of combining application of N,P,K fertilizers compared with the other treatments.It suggested that balancing application of N,P,K fertilizers was the foundation for increasing the flavor quality of tobacco leaves.

Keywords:

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