

土壤肥料科学

几种有机高聚物包膜肥料养分释放速率研究

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摘要:

采用水浸泡法对三种有机高聚物包膜控释肥Osmocote、Meister和国内包膜肥试样的养分释放速率进行了比较。研究了30℃下三种控释肥料N、水溶性P2O5、水溶性K2O的累积溶出率差异,研究了不同温度对三种包膜控释肥养分释放速率的影响。结果表明,随着温度的升高,三种包膜控释肥的养分释放速率明显加快,但同一肥料三种养分的释放速率不一致,肥料仅标明一种元素的释放期不合规范;选取适当的膜材料是有机高聚物包膜控释肥控制养分释放速率的关键。

关键词: 有机高聚物包膜肥 养分释放速率

Study on Nutrient Release Rate of Some Organic Polymer Coating Controlled-release Fertilizers

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Abstract:

Three kinds of controlled-release fertilizers, Osmocote, Meister and the sample of China, coated by organic polymer, were used in this study. The nutrient release rate of fertilizers were tested and compared in water. The effect of temperature on the rate of fertilizers'nutrient release was discussed. Results indicated that merely labeling single element released period was illogical. Results were evaluated comprehensively, and the key of the control of fertilizers'nutrient release was selecting proper coating substance.

Keywords: organic polymer-coating-controlled-release fertilizer nutrient release rate

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