

研究简报

改良剂对降低三七中重金属残留量作用的研究*

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摘要 通过使用不同改良剂处理重金属污染土壤, 了解其对降低三七中重金属残留量形成的影响。选择土壤背景值中铅、镉、砷、汞等4种重金属含量较高的地块, 分别采用石灰、碳酸氢铵、有机肥、粉煤灰等4种改良剂进行土壤处理。通过测定供试三七块根中铅、镉、砷、汞的残留量, 探索4种改良剂对降低三七中重金属残留的作用。检测结果表明, 几种改良剂处理三七栽培土壤后, 三七块根样品中铅、镉、砷、汞等4种重金属残留量均低于空白对照。对使用石灰等3种改良剂及增施有机肥对降低三七块根中铅、汞残留量具有明显作用; 增施有机肥对降低三七块根中镉残留量具有一定作用, 而粉煤灰则具有明显作用; 使用粉煤灰、石灰及碳酸氢铵对降低三七块根中砷残留量具有明显作用。

关键词 [三七](#); [重金属残留](#); [控制技术](#)

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The Effect of the Ameliorants on Debasing the Hangover Contents of Heavy Metals in Sanqi

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Abstract

The effect of different ameliorants disposed the soils polluted by heavy metals on debasing the heavy metal hangover of Sanqi was studied. The plots having higher contents of Pb, Cd, As, Hg were chosen, the soils were treated with calces, ammonium hydrogen carbonate, organic fertilizer and coal ashes, and then the hangovers of heavy metals in the Sanqi earthnuts were determined. The result showed that the contents of heavy metals in Sanqi earthnuts planted in the treated soils were lower than the blank collator. All of the ameliorants had obvious effects on debasing the contents of Pb and Hg in the Sanqi earthnuts, the organic fertilizer and the coal ashes had definite and obvious effect on debasing the content of Cd, respectively, and the calces, ammonium hydrogen carbonate, and the coal ashes had obvious effects on debasing the content of As in the Sanqi earthnuts.

Key words [Sanqi](#) [heavy metals](#) [control technology](#)

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