

植物保护科学

氯化苦土壤熏蒸防治烟草土传病害效果研究

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摘要:

摘要: 针对烟田大面积轮作难、土传病害防治难等现状, 为了探索植烟土壤处理新途径, 本文研究了氯化苦土壤熏蒸防除杂草和烟田土传病害的效果。笔者以99.5%氯化苦原液采用注射法处理土壤, 试验结果表明: (1) 苗床使用不同用量氯化苦熏蒸对苋菜、马齿苋、莎草均有极显著防效, 但对牛筋草无效; (2) 接种条件下, 烟苗移栽98d后不同用量处理对黑胫病的防效为68.00%~84.29%, 对根结线虫病的防效为80.66%~92.49%; (3) 大田条件下, 移栽104d后不同用量处理对黑胫病的防效为75.16%~88.15%; 移栽165d后对根结线虫病的防效为53.60%~65.70%, 并能明显改善烟株生物学性状。因此, 氯化苦土壤熏蒸是一种有效解决烟草土传病害的方法。氯化苦熏蒸不能防除牛筋草(*Eleusine indica*(L.) Gaerth.) 为首次报道。

关键词: 关键词: 氯化苦, 熏蒸, 烟草, 黑胫病, 根结线虫病, 牛筋草

Control Effects of Chloropicrin Soil Fumigation on Tobacco Soil-borne Diseases

Abstract:

Abstract: Aiming at the status quo that tobacco fields rotation is difficult on large-scale and the difficulties in soil-borne diseases control, exploring new ways of tobacco field soil treatment, this paper studied the control effects of chloropicrin soil fumigation on weeds and soil-borne diseases. The author used 99.5% chloropicrin to fumigate soil by injection method, the results show that: (1) Different dosage chloropicrin seedbed fumigation have significant control effects on amaranth, purslane, cyperus, but on indica null and void. (2) Under the vaccinated conditions, after planting 98 days, the control effects on black shank range from 68.00% to 84.29 % and the control effects on root-knot range from 80.66% to 92.49% using different dosage chloropicrin soil fumigation. (3) Under field conditions, the control effects on black shank range from 75.16 % to 88.15% after planting 104 days and the control effects on root-knot range from 53.60 % to 65.70 % after planting 165 days using different dosage chloropicrin soil fumigation and the performance of the biological characteristics of tobacco can be significantly improved at the same time. Therefore, chloropicrin soil fumigation is an effective solution to control soil-borne diseases of tobacco. Chloropicrin fumigation can not control *Eleusine indica* (L.) Gaerth is reported firstly.

Keywords: Key words: Chloropicrin, fumigation, tobacco, black shank, the root-knot nematode disease, *Eleusine indica*

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