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摘要: 以抗感大豆胞囊线虫3号生理小种品种灰皮支黑豆 (ZDD2315) 和辽豆15为材料, 室内人工接种大豆胞囊线虫, 接种后5、10、15、20、25、30 d取样, 测定抗感品种接种与未接种根内丙二醛 (MDA)、可溶性糖和可溶性蛋白含量的动态变化, 初步明确灰皮支黑豆抗大豆胞囊线虫3号生理小种的生理机制。结果表明: 大豆受大豆胞囊线虫感染后, 抗病品种灰皮支黑豆根内丙二醛 (MDA)、可溶性糖含量低于感病品种辽豆15, 而可溶性蛋白含量高于感病品种辽豆15。

Abstract: The resistant and susceptible varieties of HuipizhiHeidou (ZDD2315) and Liaodou 15 were tested against soybean cyst nematode (Heterodera glycines, SCN). The plants were inoculated with eggs of SCN and the samples of roots were obtained 5, 10, 15, 20, 25 and 30 days later. The contents of MDA, soluble sugar and soluble protein in the roots were measured in order to reveal the physiological mechanism of HuipizhiHeidou resistant to race 3 of SCN. The results showed that the contents of MDA and soluble sugar in HuipizhiHeidou were less than that in Liaodou 15, and the content of soluble protein in HuipizhiHeidou was more than that in Liaodou 15 after inoculated with SCN.

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