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[1] 侯文焕, 杨永庆, 林静, 等. 不同来源大豆材料对SMV株系SC3和SC7的抗性分析[J]. 大豆科学, 2015, 34(05): 861-866.

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不同来源大豆材料对SMV株系SC3和SC7的抗性分析

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摘要: 对39份野生大豆材料、150份不同国家和地区引种的栽培大豆材料和49份国内参加联合鉴定试验的优异种质材料接种黄淮海主要SMV流行株系SC3和SC7进行抗性评价。结果表明: 49份优异种质对SC3和SC7整体抗性表现优于引种材料, 优于野生大豆材料, 中抗及以上品种居多, 对SC3和SC7株系表现无症状的材料分别为7和12份, 分别占14.3%和24.5%, 筛选出晋豆28、晋选30、文丰1号和早熟17对两个株系均表现无症状; 同时筛选出对两个株系均表现高抗的材料4份。在野生大豆材料中仅筛选出1份对SC7株系表现高抗的材料ZYD02740; 从引种大豆材料中分别筛选出对SC3和SC7株系表现无症状的材料8和18份, 其中PI555396、PI591506、PI633970和R07-2001对SC3和SC7均表现无症状, 同时还筛选出7份表现较好的抗扩展的材料。

Abstract: In this study, 39 wild soybeans, 150 introduction soybeans and 49 national excellent soybean accessions, which were selected from joint identification, were used for evaluating resistance to Huang-Huai-Hai prevalent soybean mosaic virus (SMV) strains SC3 and SC7. The result showed that the 49 national excellent soybean accessions were more excellent than the 39 wild soybeans and 150 introduction soybeans in SMV resistance, more than half of these cultivars showed MR, HR or SY to SC3 and SC7 strains. In the 49 accessions, seven (14.3%) and twelve (24.5%) cultivars showed SY to SC3 and SC7, respectively. Jindou 28, Jinyi 30, Wenfeng No.1 and Zaoshu 17 showed SY to both strains. Four cultivars showed HR to both strains. Only one (ZYD02740) cultivars showed HR to SC7 in 39 wild soybeans. Eight and eighteen cultivars among the introductions showed SY to SC3 and SC7, respectively, PI555396, PI591506, PI633970 and R07-2001, showed SY to both SMV strains, in addition 7 cultivars from the 150 introduction soybeans were resistant in development to both strains.

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