

研究论文

抗阿特拉津(Atrazine)转基因大豆植株的田间检测表现

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摘要 地面(出苗前)或植株(幼苗分枝期)喷施Atrazine液后,从田间观测及考种结果看,未导入抗性基因的大豆对照株受害严重,或枯死或严重减产;导入抗性基因的大豆植株后代F₄、F₅代基本不受影响,单株产量与未喷液的对照株相近或略高。这显示了导入的抗性基因对Atrazine的抵抗作用。通过喷施Atrazine已筛选出了多个抗性较强的株系,有望从中进一步筛选出抗性稳定的株系,用到大田生产。

关键词 [阿特拉津,转基因大豆植株](#)

分类号

Expression of the Atrazine-Resistant Transgenic Soybean Plants in Field Test

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Abstract After spraying the Atrazine solution on the ground (before emergence) or on the plant (during seedling stage), the result of field observation and indoor examinations showed that the ck plants (nontransgenic) were injured seriously, either withered or reduced yield obviously, the F₄、F₅ plants of transgenic soybean plant transferred with resistant gene were unaffected basically, its yield per plant was close to or a little higher than that of the ck plants unsprayed atrazine solution. It shows that the resistant gene existing in F₄、F₅ plants displays resistance to the Atrazine. Several plant lines with higher resistance have been screened out by means of spraying the Atrazine solution. Therefore, it is hopeful to select a few plant lines with stable resistance and apply them to the field production of soybean.

Key words [Atrazine](#) [Transgenic soybean plants](#)

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