

农业生态与环境科学

## 应用SOS/Umu试验评价除草剂的致突变性<sup>\*</sup>

瞿建宏, 吴伟<sup>\*\*</sup>, 陈家长

(中国水产科学研究院淡水渔业研究中心, 江苏 无锡 214081)

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**摘要** 采用SOS/Umu显色试验研究了2,4K-D丁酯,丁草胺,使它隆,艾割和嗪草酮等5种除草剂的致突变性。结果显示,在SOS/Umu试验中,使它隆和艾割2个受试除草剂可以诱发SOS阳性反应,且呈明显的剂量-效应关系,表明这2种除草剂具有致突变活性。而其它3种除草剂则无诱变效应。

**关键词** [SOS/Umu显色试验](#) [除草剂](#) [致突变性](#)

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## Mutation Effect of Pesticides with SOS/Umu Chromotest

QU Jian-hong, WU Wei, CHEN Jia-zhang

(Freshwater Fisheries Research Centre of Chinese Academy of Fisheries Science, Wuxi 214081, China)

### Abstract

In order to evaluate the mutation effect of the 5 kinds of pesticides, SOS/Umu chromotest was applied to 2,4-D Butylate, Butachlor, Starane, Argold and Metribuzin. In the SOS/Umu chromotest, the 2 pesticides such as Starane and Argold could induce the SOS reaction. The results indicated that the 2 pesticides had mutation effects, which were better relationships to the concentration of them. The research showed that under the same test conditions, the other 3 kinds of pesticides had no mutation effects by SOS/Umu chromotest.

**Key words** [SOS/Umu chromotest](#) [pesticides](#) [mutation](#)

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通讯作者 吴伟

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