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ONLINE ISSN : 1349-0923

PRINT ISSN : 1348-589X

Journal of Pesticide Science

Vol. 29 (2004) , No. 3 pp.214-216



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Degradation of the Herbicides Thiobencarb, Butachlor and Molinate by a Newly Isolated *Aspergillus niger*

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(Received: February 5, 2004)

(Accepted for publication: April 24, 2004)

Abstract:

Thiobencarb (*S*-4-chlorobenzyl diethylthiocarbamate) is a thiocarbamate herbicide used for weed control in rice production. After screening, a strain able to degrade thiobencarb, identified as *Aspergillus niger* van Tieghem, was successfully isolated. Optimal conditions for thiobencarb degradation in culture were at pH 5.5 and 30°C. The strain also showed the ability to degrade the herbicides molinate and butachlor. © Pesticide Science Society of Japan

Keywords:

thiobencarb, *Aspergillus* sp., molinate, butachlor



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“Degradation of the Herbicides Thiobencarb, Butachlor and Molinate by a Newly Isolated
Aspergillus niger”. *J. Pestic. Sci.* Vol. **29**, pp.214-216 (2004) .

doi:10.1584/jpestics.29.214

JOI JST.JSTAGE/jpestics/29.214

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