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ONLINE ISSN : 1349-0923

PRINT ISSN : 1348-589X

**Journal of Pesticide Science**

Vol. 30 (2005) , No. 1 pp.11-16

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## Tests for Evaluating the Side Effects of Chlorothalonil (TPN) and Spinosad on the Parasitic Wasp (*Aphidius colemani*)

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(Received: May 6, 2004)

(Accepted for publication: August 30, 2004)

### Abstract:

To better understand the side-effects of pesticides on nontarget insects, exposure and mortality assessment tests were performed with the parasitic wasp, *Aphidius colemani*. Quantities of chlorothalonil (TPN) and spinosad in individual wasps were determined using commercially available ELISA kits. TPN showed no side-effect on contact with dry film or oral administration. The lethal dosage of spinosad on plant leaves was estimated at ca. 0.2  $\mu\text{g}/\text{cm}^2$  for individual wasps, and was supported by the results of residual activity tests. Furthermore, a minimum of around 0.1 ng of spinosad was observed in dead individuals exposed to plant leaves treated with a lethal dosage of the pesticide. © Pesticide Science Society of Japan

### Keywords:

*Aphidius colemani*, contact exposures, mortality, ELISA, spinosad, chlorothalonil (TPN)

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To cite this article:

Yoshiyuki Takahashi, Toshiki Kojimoto, Hiroyuki Nagaoka, Yutaka Takagi and Masahiko Oikawa, "Tests for Evaluating the Side Effects of Chlorothalonil (TPN) and Spinosad on the Parasitic Wasp (*Aphidius colemani*)". *J. Pestic. Sci.* Vol. **30**, pp.11-16 (2005) .

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doi:10.1584/jpestics.30.11

JOI JST.JSTAGE/jpestics/30.11

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