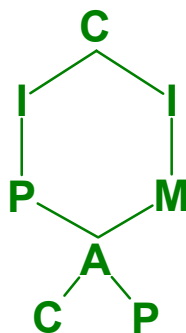


# CIPAC

## COLLABORATIVE INTERNATIONAL PESTICIDES ANALYTICAL COUNCIL LIMITED

Commission Internationale des Méthodes d'Analyse des Pesticides (CIMAP)

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### CIPAC INFORMATION SHEET No. 237

Your Ref:  
Our Ref: MDM  
05. September 2002

#### Release rate profiles and “free” active ingredient in microencapsulated formulations of lambda-cyhalothrin

Dear Member,

This is to inform you that PAC-UK is planning to organize a collaborative study of two closely related methods for determination of the release rate profile of, and “free” active ingredient in, lambda-cyhalothrin slow-release CS formulations.

**Principle.** The CS formulation is diluted in water and extracted by rolling with hexane in small, general purpose screw-capped bottles. Hexane is used alone as the extractant for the determination of “free” active ingredient and is analyzed after 5 min. Hexane containing 10% ethanol is used for the determination of release rate and is analyzed at 15, 30 and 180 min. The lambda-cyhalothrin content of the extracts is determined by GC-FID (CIPAC handbook E, page 49).

**Scope.** Four formulation samples, covering a wide range of release rate profiles, will be tested in duplicate on each of two days. “Free” active ingredient levels and release rate profiles will be determined. In view of the sensitivity of the extraction procedures to the size and shape of the extraction bottles, these will be provided, although they are readily available from laboratory suppliers. A horizontal laboratory sample roller capable of rotating the bottles at 70 rpm is required. The use of other, more rigorous, mixing systems will result in fracture of capsules and erroneous results.

**Time schedule.** The collaborative trial is intended to be carried out during November 2002 – February 2003. Those who wish to participate should contact the organizer, by e-mail or post, by 30 September 2002.

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Yours sincerely

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