# **CIPAC STATUS REPORT**

## 27/09/2006

R1 R2 -CH $_3$  -CH=CH $_2$ 

# 0032 Pyrethrum

Allocated to AOAC

CIPAC methods published in:

CIPAC 1, p. 598 (titr.)

CIPAC 1A, p. 1342 (rev.)

CIPAC 1C, p. 2209 (+ piperonyl butoxide, GLC)

CIPAC H, p. 239

**CIPAC** 10th meeting, June 1966 in France

(Allocation GB)

CPAC method 564 has not yet been published as CPAC method.

CIPAC 11th meeting, June 1967 in London

CIPAC method (564M) awaiting publication.

**CIPAC** 12th meeting, June 1968 in Braunschweig

Dr. Weinmann said that there was a GLC method (1291m). Scandinavia suggested the determination of piperonylbutoxide to be incorporated in the GLC method.

Allocated to D.

**CIPAC** 3th meeting, June 1969 in Oeiras

Dr. Weinmann reported that the proposed GLC method was now also applicable to formulated pyrethrins and in concentrations as low as 0.01 %. Furthermore, it is possible to determine the pyrethrins in combination with piperonylbutoxide and lindane (CIPAC 1461/R). Coll. work planned.

CIPAC 14th meeting, June 1970 in Gembloux

The 19th WHO Expert Committee has maintained the mercury reduction method, but recommended coll. study on alternative methods.

CIPAC 15th meeting, October 1971 in Washington

Coll. work not yet started.

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CIPAC 16th meeting, June 1972 in Stockholm

Method 1461 is to be studied collaboratively and an Information Sheet to be sent.

CIPAC 17th meeting, June 1973 in Wageningen

Dr. Weinmann reported that he could not get enough collaborators.

CIPAC 18th meeting, June 1974 in London

Work on extract and two formulations (pyrethrum + piperonyl butoxide) in progress in 5 laboratories. Samples sent in May 1974.

**CIPAC** 19th meeting, June 1975 in Oeiras

GLC method. Samples were received broken. New samples to be distributed.

CIPAC 20th meeting, June 1976 in Wädenswil

Work on HPLC method in progress.

**CIPAC** 21st meeting, June 1977 in Braunschweig

Allocated to AOAC

HPLC method under investigation. There is a small addition to the AOAC official method. (JAOAC 60,328,1977).

**CIPAC** 22nd meeting, June 1978 in Versailles

Still being studied.

**CIPAC** 25th meeting, June 1981 in Gembloux

Mr Cassera (AOAC) was reported to conduct a coll. study with a GLC method for pyrethrum + piperonylbutoxide.

CIPAC 26th meeting, May 1982 in Rome

The GLC method for pyrethrins + piperonylbutoxide, 6.c 2225 was adopted as <u>provisional</u> AOACCIPAC method.

CIPAC 27th meeting, July 1983 in Brisbane

<u>Decision</u> The provisional method 6.C 2225 was adopted as <u>full</u> AOACCIPAC method (referee method, published in 1C).

CIPAC 28th meeting, October 1984 in Baltimore

Mr Quélennec reported that the WHO expert committee had advised to replace the old method by the GLC method. Specifications for flowers were based on total pyrethrum content. The GLC method had the disadvantage that it required the use of pure pyrethrine I and II as standard. It was advised to change the spec's to except the GLC method.

**CIPAC** 31st meeting, June 1987 in Cascais

Mr Jönsall reported difficulties with obtaining separate standards for pyr I and II. There were no such standards. The only standard available was the one from Pyrethrum Board of Kenya. It was unknown on what the method the guaranteed pyr I and pyr II contents were based

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#### **CIPAC** 40th meeting, May 1996 in Beijing

Mr Hanks reported the results of an AOAC study with a capillary GLC method for pyrethrins and piperonyl butoxide. There was a discussion about the internal standards having about the same surface, but being introduced for the small and the large peaks respectively. Before a decision is taken CIPAC will wait for the decision of AOAC.

### CIPAC 41st meeting, June 1997 in Roskilde

Mr Hanks reported that the method for pyrethrins and pyrethrins with piperonyl butoxide and MGK 264 formulations is still under review by AOAC.

<u>Decision</u> The capillary GLC method for pyrethrins and pyrethrins with piperonyl butoxide and MGK 264 formulations, CIPAC/3908, will be accepted as <u>provisional</u> CIPAC method as soon as it has become a first action AOAC method.

#### CIPAC 42nd meeting, July 1998 in York

The capillary GLC method for pyrethrins and pyrethrins with piperonyl butoxide and MGK 264 formulations, CIPAC/3908, has become a first action AOAC method meanwhile.

<u>Decision</u> The conditional adoption of the capillary GLC method for pyrethrins and formulations of pyrethrins with piperonyl butoxide and MGK 264, CIPAC/3908, as <u>provisional AOAC-CIPAC</u> method was confirmed.

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