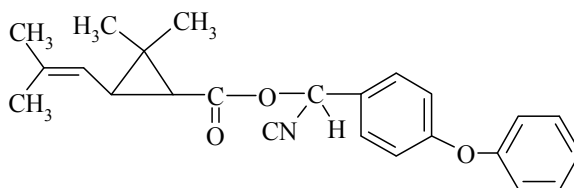


CIPAC STATUS REPORT

22/09/2018



0804 Cyphenothrin

Allocated to JAPAC

CIPAC methods published in:

CIPAC M, p. 44

CIPAC 48th meeting, June 2004 in Brno

Mrs Furuta presented a small scale collaborative study by JAPAC for the determination of *d,d*-trans-cyphenothrin in two technical materials, and three EC-formulations using capillary GC, FID and 4-benzylbiphenyl as internal standard. Five laboratories participated in the study. One outlier was identified. The outlier was not excluded from the statistical calculation. JAPAC proposed to proceed to a full collaborative trial. Mr. Müller expressed his satisfaction how the isomers separated on the capillary column can confirm the isomer ratio in the active ingredient.

CIPAC 49th meeting, June 2005 in Utrecht

Mr Y. Asada presented a full scale collaborative study for *d,d*-trans-cyphenothrin. The identification of the a.i. was achieved using a chiral HPLC method with Pirkle phase column (Sumichiral OA-2000) The method was peer validated by two independent labs. The quantification was carried out by a capillary GLC method; the column recommended was a DB17. Twelve labs participated in the study. One TC and three EC formulations were included in the study. Mr Asada proposed the method to be accepted as provisional.

Mr Dobrat made a remark concerning the ISO common name of the compound.

Decision The capillary GC method (CIPAC/4431) for determination of *d,d*-trans cyphenothrin in TC and EC formulations was accepted as **provisional** CIPAC method. The chiral HPLC method (CIPAC/4431) for the determination of *d,d*-trans-cyphenothrin in TC and EC formulations was accepted as **identity test** for the determination of the stereoisomer ratio of the active ingredient.

CIPAC 50th meeting, June 2006 in Geneva

Mr Dobrat noted that *d,d*-trans Cyphenothrin is not an ISO common name. Mr Hill said the analytical method was worded badly, and that the *d,d*-cis cyphenothrin should be excluded if it was included. Sumitomo should be addressed to have a correct description of the method.. On the technical level, the method is fine. It was decided to keep the method provisional and, with the help of WHO, urge the company to co-operate with the editorial process.

The capillary GC method (CIPAC/4431) for determination of *d,d*-trans cyphenothrin in TC and EC formulations remains as **provisional** CIPAC method.

CIPAC 51th meeting, June 2007 in Umhlanga Rocks, South Africa

Decision The capillary GC method (CIPAC/4431) for determination of *d,d*-trans cyphenothrin in TC and EC formulations remains as **provisional** CIPAC method, subject of further clarification on the composition of the TC.

CIPAC STATUS REPORT

18/09/2017

CIPAC 52nd meeting, June 2008 in Braunschweig

The capillary GC method for determination of *d,d-trans* cyphenothrin in TC and EC formulations remained last year as a provisional CIPAC method, subject to further clarification on the composition of the TC and on the ISO common name. The scope of the method was changed to cyphenothrin, chromatograms were provided. As a consequence it was agreed to promote the method, keeping the GC method able to analyse the substance called *d,d-trans* cyphenothrin in the WHO specification. The editors were asked to contact the company directly for their agreement on the wording. It was agreed to keep it provisional until the finalization of the description of the method.

Decision The scope of the capillary GC method (CIPAC/4431) for determination of *d,d-trans* cyphenothrin in TC and EC formulations was changed to cyphenothrin. The method has been accepted as **full** CIPAC method, subject to the finalisation of the rewording of the method (incl. the submission of the respective chromatograms).

CIPAC 61th meeting, June 2017 in Rome

Mrs Makiko Mukumoto presented the **extension** of CIPAC/804/TC/(M) for *d,d-trans*-cyphenothrin oil in water emulsion EW. The report was prepared to demonstrate the validity of the extension method for the *d,d-trans*-cyphenothrin.

The cyphenothrin content was determined by capillary gas chromatography using flame ionization detector and triphenyl phosphate as internal standard.

In order to extend the CIPAC method a short temperature program was added to assure that all formulants elute from the analytical column. This modification was considered as a minor change. The data shown demonstrated that the method is appropriate for the determination of *d,d-trans*-cyphenothrin in EW formulation. JAPAC proposed the extension of CIPAC 804/TC/(M)3 for *d,d-trans*-cyphenothrin to the EW formulation.

The following comments were received from the meeting:

➤ No other questions were received.

Closed Meeting:

The extension of the scope (CIPAC/5082) of CIPAC method 804/EC/(M)/ for the determination of the *d,d-trans*-cyphenothrin content in Metofluthrin/*d,d-trans*-Cyphenothrin/Piperonyl butoxide EW formulations was accepted as a **provisional** CIPAC method.

CIPAC 62nd meeting, June 2018 in Panama City

Decision: The extension of the scope (CIPAC/5082) of CIPAC method 804/EC/(M)/ for the determination of the *d,d-trans*-cyphenothrin content in Metofluthrin/*d,d-trans*-Cyphenothrin/Piperonyl butoxide EW formulations was accepted as a **full** CIPAC method.