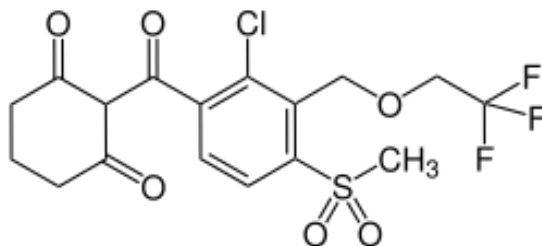


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0790 tembotrione

Allocated to

CIPAC methods published in: CIPAC Handbook -

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CIPAC 67th meeting, June 2023 Braunschweig

Tembotrione by Ms Yue Wang (5341, 5342)

Ms Wang presented the results of a small scale collaborative trial for the determination of the tembotrione content in two TC materials, and two SC and two OD formulations after extraction with acetonitrile by HPLC on a C18 column with UV detection at 284 nm and external standardization. Four laboratories participated and returned results in time. All participants strictly complied with the given analytical conditions and no deviation or remarks were reported. The statistical evaluation was performed according to DIN ISO 5725 and the 'Guidelines for CIPAC Collaborative Study Procedure for Assessment of the Performance of Analytical Methods'. Testing for outliers/stragglers was not performed. The HorRat values ranged from 0.2-0.6 indicating compliance to the test criteria. Ms Wang considered the method to be suitable validated and recommended continuation with full scale collaborative trial.

No questions were asked by the meeting.

Closed meeting:

No further comments were received, the method is recommended to a **full scale** CIPAC trial.

CIPAC 68th meeting, June 2024 Wageningen

Tembotrione by Ms Yue Wang (5380, 5381)

Ms Yue Wang presented the results of a full scale collaborative trial of tembotrione in two TC samples, two SC and two OD formulations in which 21 laboratories participated and reported results. The analysis was performed by high performance liquid chromatography on a reversed phase column (C18, no brand indicated, 250 Å~ 4.6 mm, 5.0 µm) at 30 Å~C Å} 2 Å~C with UV detection at 284 nm and external standardization. The eluent was acetonitrile : 0.1% phosphoric acid in water 30:70 (v/v) at a flow rate of 1.0 ml/min. All participating laboratories applied the prescribed method with minor deviations in HPLC column brand or column dimensions. The deviations were assessed as not critical. Several laboratories reported difficulties in dissolving the sample material and the sample preparation procedure was adjusted. Laboratory seven analysed the samples for a third day as they realized that their performance in analysing the two TC sample were below standard and the organizers decided that the results of the third day were allowed in the statistical evaluation. Nevertheless, both TC results of laboratory seven were identified as outliers. Laboratory 19 reported one straggler and one outlier in

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the two TC samples and also one outlier with an OD sample. Without removing the outliers and stragglers both TC samples showed HorRat values of 1.3 and 1.6. The HorRat values of both OD and SC samples were between 0.5 and 0.9. After removing of the outliers and stragglers the HorRat values were 0.2 for both TC samples and between 0.5 and 0.9 for the two OD and SC samples thus fulfilling the required criteria.

Ms Yue Wang considered the method to be appropriate validated for the intended purpose and recommended accepting it as a provisional CIPAC method.

Questions and remarks from the meeting.

No comments were given or questions were asked by the meeting.

Closed Meeting:

No comments were given or questions were asked by the meeting. The method was accepted as **provisional** method.