

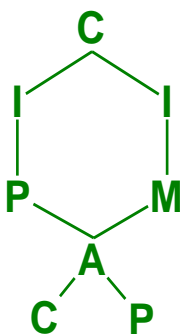
CIPAC

COLLABORATIVE INTERNATIONAL PESTICIDES ANALYTICAL COUNCIL LIMITED

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

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CIPAC INFORMATION SHEET No. 320

Your Ref:
Our Ref: LB
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Phosmet impurities

Dear Colleague,

This is to inform you that Gowan Crop Protection Limited is planning to organise a small scale collaborative trial on two methods for impurities phosmet-oxon and isophosmet in phosmet technical material and formulations.

Principle: The content of impurities phosmet-oxon and isophosmet in phosmet technical material is determined by reversed phase high performance liquid chromatography on a 250 x 4.6 mm (i.d.), 5 µm C18 column (base deactivated endcapped octadecylsilyl bonded silica, ex. Altima C18, or equivalent), with mobile phase composed of acetonitrile/water (gradient) and UV detection at 254 nm. Quantitation is done by external standardisation.

The content of impurities phosmet-oxon and isophosmet in phosmet containing formulations is determined by LC-MS/MS on a reversed phase column, 150 x 2 mm (i.d.), 5 µm C8 column (Luna C8 or equivalent), with mobile phase composed of methanol/water/ammonium formate/formic acid (gradient). Mass spectroscopy is with electrospray ionisation in positive mode and ion monitoring for phosmet-oxon: MRM m/z 302>160 (quantification) and MRM m/z 302>133 (confirmation) and for isophosmet MRM m/z 318>160 (quantification) and MRM m/z 318>133 (confirmation).

Scope: It is intended to analyse 3 samples consisting of one technical material (TC), one water dispersible granule (WG) and one emulsifiable concentrate (EC). Samples and analytical standards will be supplied.

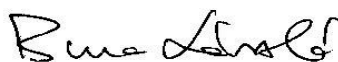
Time schedule: The collaborative trial is intended to be carried out during May 2019- June 2019 (shipment: end April 2019). Those who wish to participate should contact the organiser by 15th of April 2019. The results should be reported by the end of June 2019.

Note: The trial is limited to 3 participating laboratories. The selection is based on the application order.

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Yours sincerely

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