

## Metaldehyde in Slug Pellets Analyzed by LCMS - AppNote

## **Pesticide Formulation**

As Metaldehyde is a non-UV absorbing compound, other detection methods needed to be investigated besides conventional UV-HPLC. LC-MS was found to be a well-suited analysis by searching for the EIC corresponding to the [M+H]+ ion. Good retention and peak shape were observed for this analyte using the Cogent Bidentate C18 2.0<sup>™</sup> Column.



B: Acetonitrile / 0.1% Formic Acid

Time (*minutes*) %B

0 10

3	100
6	100
7	10

**Post Time:** 3 minutes **Injection vol.**: 1µL

Flow rate: 0.4mL / minute

Detection: ESI - POS - Agilent 6210 MSD TOF Mass Spectrometer

**Sample:** Slug pellets (containing 3.25% Metaldehyde) were ground and 800mg was transferred to a 25mL volumetric flask. A portion of 50 / 50 Solvent A / Solvent B diluent was added and the flask was sonicated for 10 minutes. Then it was diluted to mark, mixed thoroughly, and filtered with a 0.45um Nylon Syringe Filter (MicroSolv Tech Corp.).

**Note:** Metaldehyde is a cyclic tetramer of Acetaldehyde. Slug pellets contain wheat as bait with a small amount of Metaldehyde. These pellets are sold widely under a variety of trade names, such as Ariotox®, Cekumeta®, Deadline®, and others.



## Attachment

No 317 Metaldehyde in Slug Pellets pdf 0.2 Mb Download File

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