

SPR 17/79		AG 2.53 BB/g Jun.28, 1979
CGA 48988	lettuce	Switzerland

Stability of CGA 48988 in lettuce during frozen storage at -20°C

ABSTRACT

A freezer storage stability study was conducted to confirm validity of residue results of CGA 48988 (DL-N-(2,6-dimethylphenyl)-N-(2'-methoxyacetyl)-alanine methyl-ester) in lettuce.

Uncontaminated samples, fortified with CGA 48988 were kept at -20°C for 6 months and were analyzed for the parent from time to time.

From a field trial a lettuce sample was taken which contained residues of CGA 48988. This sample was stored at -20°C for more than one year and also analyzed from time to time.

No loss of CGA 48988 in lettuce samples could be shown under deep freeze conditions.

INTRODUCTION

The stability of pesticides in stored samples is important in developing meaningful residue data.

A deep freeze stability study with the fungicide CGA 48988 was therefore initiated in lettuce in order to show that under our storage conditions (-20°C) no degradation occurs neither in spiked nor in field samples.

EXPERIMENTAL

Preparation of Samples

50 g shredded uncontaminated plant material (lettuce) were mixed thoroughly with a premix of 5 g bolus alba and 50 mg granular formulation containing 5% CGA 48988.

The spiked samples were divided into five portions. One portion was analyzed immediately after preparation, the others were stored at -20°C and analyzed from time to time.

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From a field trial a lettuce sample, which contained a higher amount of residue of CGA 48988 was selected and stored together with the spiked samples.

Analytical procedure

CGA 48988 in lettuce: REM 16/76

Methanol extraction, partition into dichloromethane, column chromatography on alumina, GLC with a P/N selective detector.

RESULTS

mg/kg CGA 48988 found are detailed on the following pages. They show that no degradation or losses of the a.i. occur in lettuce.

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TABLE I:

Recovery of CGA 48988 from fortified lettuce
 samples following freezer storage at -20°C

Interval (days)	mg/kg added	mg/kg found ¹⁾	% recovery ²⁾
0	5	5.2	106
81	5	4.8	92
177	5	5.7	102

1) Results not corrected for recoveries

2) Recovery values were determined by analyzing check samples freshly fortified with 2 mg/kg and 4 mg/kg CGA 48988.

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TABLE II

Recovery of CGA 48988 from field treated lettuce*
following freezer storage at -20°C

Interval (days)	mg/kg ¹⁾ found	% recovery ²⁾
0	0.67	87
155	1.11	106
241	0.85	92
337	1.14	102

* Lettuce was sampled 7 days after 5 treatments with RIDOMIL WP 50 and stored at -20°C. The residue value found in these samples by the first analysis was 0.67 mg/kg. These samples were then re-analyzed from time to time within our freezer storage stability study.

- 1) Results not corrected for recoveries
- 2) Recovery values were determined by analyzing check samples freshly fortified with 2 mg/kg and 4 mg/kg CGA 48988.