

US EPA ARCHIVE DOCUMENT

**DATA EVALUATION RECORD
VEGETATIVE VIGOR TEST
§ 122-1 (TIER I)**

- 1. **CHEMICAL:** Azoxystrobin PC Code No.: 128810
- 2. **TEST MATERIAL:** ICIA5504 50 WG Purity: 51.6%
- 3. **CITATION**

Authors: C.J. Everett, L. Canning, and J.F.H. Cole
Title: ICIA5504: A Tier I Glasshouse Study to Evaluate the Effects on Vegetative Vigour on *Brassica napus*.

Study Completion Date: February 28, 1995
Laboratory: Zeneca Agrochemicals, Bracknell, Berkshire, UK
Sponsor: Zeneca Ag. Products, Wilmington, DE
Laboratory Report ID: RJ1690B
MRID No.: 436781-59

4. **REVIEWED BY:**

William Erickson
 Biologist
 EEB/EFED/EPA

Signature: *W. Erickson*
 Date: 4/03/96

5. **APPROVED BY:**

Harry Craven
 Section Head 4
 EEB/EFED/EPA

Signature: *H. T. Craven*
 Date: 6/21/96

6. **STUDY PARAMETERS:**

Definitive Study Duration: 29 days.

7. **CONCLUSIONS:** This study is scientifically sound and fulfills the guideline requirements for a Tier I vegetative vigor study with rape.

8. **ADEQUACY OF THE STUDY:**

- A. **Classification:** Core.
- B. **Rationale:** N/A.
- C. **Repairability:** N/A.

9. **GUIDELINE DEVIATIONS:** None.
10. **SUBMISSION PURPOSE:** New chemical. Repeat of invalid study (MRID No. 436781-58) for rape only.
11. **MATERIALS AND METHODS:**

A. Test Organisms

Guideline Criteria	Reported Information
Species 6 dicots in 4 families, including soybean and a rootcrop; 4 monocots in 2 families, including corn.	<u>Dicots:</u> rape <u>Monocots:</u> none
Number of plants per rep 5	5 plants per rep, each in individual pots
Source of Seed	In-house plants

B. Test System

Guideline Criteria	Reported Information
Solvent	None
Site of test	Greenhouse
Planting method / type of pot	One plant/pot, 10-cm pots
Method of application	Track sprayer
Method of watering	Soil-level avoiding foliage
Growth stage at application 3-4 true leaf stage	Mean stage of 3.5 leaves

C. Test Design

Guideline Criteria	Reported Information
Dose range 2x or 3x	Tier I study conducted at two rates: 0.15 and 1.0 lb ai/A
Doses At least 5	2

DATA EVALUATION RECORD
VEGETATIVE VIGOR TEST
§ 122-1 (TIER I)

1. CHEMICAL: ^{Azoxy-stol} Sulfentrazone 128810
PC Code No.: 129081

2. TEST MATERIAL: ICIA5504 50 WG Purity: 51.6%

3. CITATION

Authors: C.J. Everett, L. Canning, and J.F.H. Cole
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MRID No.: 436781-59

DP Barcode: ~~D217072, D217078~~

4. REVIEWED BY: Mark Mossler, M.S., Toxicologist,
KBN Engineering and Applied Sciences, Inc.

Signature: *Mark Mossler* Date: 1/19/96

APPROVED BY: Pim Kosalwat, Ph.D., Senior Scientist
KBN Engineering and Applied Sciences, Inc.

Signature: *P. Kosalwat* Date: 1/19/96

5. APPROVED BY:

Signature: Date:

6. STUDY PARAMETERS

Definitive Study Duration: 29 days

7. CONCLUSIONS: This study is scientifically sound and fulfills the guideline requirements for a Tier I vegetative vigor study with rape only.

8. ADEQUACY OF THE STUDY

A. Classification: Core.

B. Rationale: N/A.

C. Repairability: N/A.

Guideline Criteria	Reported Information
Controls Negative and solvent	Negative control
Replicates per dose At least 3	3
Duration of test 14 days	29 days
Were observations made at least weekly?	Yes
Maximum labeled rate	1.0 lb ai/A

12. REPORTED RESULTS

Guideline Criteria	Reported Information
Quality assurance and GLP compliance statements were included in the report?	Yes
Was an NOEL observed for each species?	Yes
Phytotoxic observations	Yes
Were initial chemical concentrations measured? (Optional)	No
Were adequate raw data included?	Yes

Results for the most sensitive endpoint^a

Species	Parameter	Percent effect
Rape	damage	5.7

^aDetermination of the most sensitive endpoint is based on the amount of inhibition or damage.

Observations: Effects of the compound were slight, and the major symptoms of toxicity were stunted and malformed plants.

13. REVIEWER'S COMMENTS: The plants were treated with biological control to control aphids, white flies, leaf miners, red spider mites, and thrips. The treatment probably did not affect the study, but plants should be cultivated in areas which are free of insects.

This study is scientifically sound, fulfills the guideline requirement, and is classified as Core. Growth and development of rape were not inhibited $\geq 25\%$ by treatment at 1.0 lb ai/A of ICIA5504 50 WG.