

US EPA ARCHIVE DOCUMENT

**DATA EVALUATION RECORD  
SEEDLING EMERGENCE TEST  
§ 123-1 (TIER II)**

- 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 II Glasshouse Study to Evaluate the Effects on Seedling Emergence on *Brassica napus* and *Daucus carota*.

Study Completion Date: February 28, 1995  
Laboratory: Zeneca Agrochemicals, Bracknell, Berkshire, UK  
Sponsor: Zeneca Ag. Products, Wilmington, DE  
Laboratory Report ID: RJ1689B  
MRID No.: 436781-60

4. **REVIEWED BY:**

William Erickson Signature: *W. Erickson*  
 Biologist Date: 4/03/96  
 EEB/EFED/EPA

5. **APPROVED BY:**

Harry Craven Signature: *H. T. Craven*  
 Section Head 4 Date: 6/21/96  
 EEB/EFED/EPA

6. **STUDY PARAMETERS**

**Definitive Study Duration:** 29 days

- 7. **CONCLUSIONS:** This study is scientifically sound and fulfills the guideline requirement for Tier II seedling emergence testing for azoxystrobin.

**Results Synopsis:**

Most sensitive monocot: none tested

Most sensitive dicot: Carrot  
 EC<sub>25</sub>: 0.59 lb ai/acre (dry weight)  
 95% CI: 0.23-1.5 lb ai/acre  
 Slope: 4.95  
 EC<sub>05</sub>: 0.17 lb ai/acre (emergence)

DATA EVALUATION RECORD  
SEEDLING EMERGENCE TEST  
§ 123-1 (TIER II)

1. CHEMICAL: Sulfentrazone

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  
Title: ICIA5504: A Tier II Glasshouse Study to Evaluate the Effects on Seedling Emergence on *Brassica napus* and *Daucus carota*.

Study Completion Date: February 28, 1995

Laboratory: Zeneca Agrochemicals, Bracknell, Berkshire, UK

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Laboratory Report ID: RJ1689B

MRID No.: 436781-60

DP Barcode: D217072, D217078

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

Signature: *Mark Mosler*

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 II seedling emergence test for carrot and rape.

Results Synopsis:

Most sensitive monocot: none tested

Most sensitive dicot: Carrot

Most sensitive parameter: dry weight

EC<sub>25</sub>: 0.5 lb ai/A

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**8. ADEQUACY OF THE STUDY:**A. **Classification:** Core.B. **Rationale:** N/AC. **Repairability:** N/A9. **GUIDELINE DEVIATIONS:** No major deviations.10. **SUBMISSION PURPOSE:** New chemical.**11. MATERIALS AND METHODS:****A. Test Organisms**

| Guideline Criteria  | Reported Information  |
|---|---|
| <b>Species</b><br>6 dicots in 4 families, including soybean and a rootcrop; 4 monocots in 2 families, including corn. | <u>Dicots:</u> rape and carrot<br><u>Monocots:</u> none               |
| <b>Number of seeds per rep</b><br>10  | 10  |
| <b>Source of Seed</b>   | In-house and a commercial supplier (carrot seed treated with thiram). |
| <b>Historical % Germination of Seed</b>   | 76% for both species  |

**B. Test System**

| Guideline Criteria                   | Reported Information                                    |
|--------------------------------------|---|
| <b>Solvent</b>                       | None  |
| <b>Site of test</b>                  | Greenhouse  |
| <b>Planting method / type of pot</b> | Planted at 0.5- or 2-cm depths in trays (7 cm in depth) |
| <b>Method of application</b>         | Track sprayer   |
| <b>Method of watering</b>            | Subirrigation with occasional top misting               |

| Guideline Criteria                            | Reported Information |
|---|----------------------|
| Growth stage at application<br>Seed or plant. | Seed                 |

## C. Test Design

| Guideline Criteria                         | Reported Information  |
|--|-----------------------|
| Dose range<br>2x or 3x                     | 2x                    |
| Doses<br>At least 5                        | 7                     |
| Controls<br>Negative and solvent           | Negative control      |
| Replicates per dose<br>At least 3          | 3 (6 for the control) |
| Duration of test<br>14 days                | 29 days               |
| Were observations made at<br>least weekly? | Yes                   |
| Maximum labeled rate                       | 1.0 lb ai/A           |

12. REPORTED RESULTS

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

Reported results for the most sensitive endpoints:

| Species | Endpoint                         | EC <sub>25</sub><br>(lbs ai/A) | NOEC<br>(lbs ai/A) |
|---------|----------------------------------|--------------------------------|--------------------|
| Carrot  | dry weight                       | >0.5                           | 0.5                |
| Rape    | emergence, damage,<br>dry weight | >1.0                           | 1.0                |

Observations: The major symptoms of toxicity were stunted plants (stems). Leaf and stem senescence were also noted.

Statistical methods: Analysis of variance, with mean separation by t-tests. EC<sub>25</sub> values were not determined.

**13. VERIFICATION OF STATISTICAL RESULTS:**

Statistical Methods: EPA/OPP/EFED Nuthatch Program  
(results attached) EC<sub>25</sub> - weighted nonlinear regression  
NOEC - Williams' Test

| Species | Endpoint   | EC <sub>25</sub><br>(lb ai/A) | EC <sub>05</sub><br>(lb ai/A) |
|---------|------------|-------------------------------|-------------------------------|
| Carrot  | dry weight | 0.59                          | 0.37                          |
|         | emergence  | 2.0                           | 0.17                          |
| Rape    | dry weight | 200                           | 2.9                           |
|         | emergence  | 3.2                           | 0.55                          |

**14. REVIEWER'S COMMENTS:** This study is scientifically sound, fulfills the guideline requirement, and is classified **Core**. Although the plants were treated with 5 biological control agents to control thrips, aphids, whiteflies, leaf miners, and red spider mites, these treatments probably did not affect the study. However, plants should be cultivated in areas which are free of insects.

Program: NUTHATCH  
Path : C:\NUTHATCH  
Date : 4/03/96

Toxicity measurement for continuous endpoints, using weighted nonlinear regression, weighting proportional to predicted means.

Reference

R.D. Bruce and D.J. Versteeg. 1992. A statistical procedure for modeling continuous toxicity data. Env. Tox. and Chem. 11:1485-1494.

RAPE-WT.DAT : Dry weight - rape seed

Raw data:

Dry weight - rape seed

|   |         |
|---|---------|
| 8 | Control |
| 6 | 13.385  |
| 3 | 13.596  |
| 3 | 12.085  |
| 3 | 13.561  |
| 3 | 12.804  |
| 3 | 12.175  |
| 3 | 0.0156  |
| 3 | 13.906  |
| 3 | 13.185  |
| 3 | 12.369  |
| 3 | 0.0313  |
| 3 | 14.194  |
| 3 | 14.058  |
| 3 | 13.566  |
| 3 | 0.0625  |
| 3 | 14.919  |
| 3 | 14.103  |
| 3 | 11.838  |
| 3 | 0.125   |
| 3 | 13.054  |
| 3 | 13.492  |
| 3 | 11.300  |
| 3 | 0.25    |
| 3 | 14.202  |
| 3 | 12.296  |
| 3 | 13.313  |
| 3 | 0.50    |
| 3 | 12.718  |
| 3 | 11.717  |
| 3 | 10.827  |
| 3 | 1.00    |
| 3 | 14.094  |
| 3 | 13.181  |
| 3 | 13.035  |

RAPE-WT.DAT : Dry weight - rape seed

Williams Test

[One-Sided Test for Decrease, alpha = 0.0500000]

| Dose   | Isotone Means | T-bar    | P-value | Significance |
|--------|---------------|----------|---------|--------------|
| 0      | 13.3          |          |         |              |
| 0.0156 | 13.3          | -0.5684  |         | N.S.         |
| 0.0313 | 13.3          | -0.5684  |         | N.S.         |
| 0.0625 | 13.3          | -0.5684  |         | N.S.         |
| 0.125  | 12.9          | -0.01311 |         | N.S.         |
| 0.25   | 12.9          | -0.01311 |         | N.S.         |
| 0.5    | 12.6          | 0.5227   |         | N.S.         |
| 1      | 12.6          | 0.5227   |         | N.S.         |

\*\*\*=Significant; "N.S."=Not Significant.

Estimates of EC<sub>50</sub>

| Parameter | Estimate | 95% Bounds Lower | Upper   | Std.Err. | Lower Bound /Estimate |
|-----------|----------|------------------|---------|----------|-----------------------|
| EC1       | 0.15     | 1.8E-07          | 1.2E+05 | 2.9      | 1.2E-06               |
| EC5       | 2.9      | 0.00020          | 4.5E+04 | 2.0      | 6.8E-05               |
| EC25      | 2.0E+02  | 5.2E-14          | 7.7E+17 | 7.6      | 2.6E-16               |
| EC50      | 3.8E+03  | 4.3E-21          | 3.3E+27 | 12.      | 1.1E-24               |

Slope = 0.529 Std.Err. = 1.69

Goodness of fit: p = 0.11 based on DF= 5.0 19.

RAPE-WT.DAT : Dry weight - rape seed

Observed vs. Predicted Treatment Group Means

| Dose   | #Reps. | Obs. Mean | Pred. Mean | Obs.-Pred. | %Control | %Change |
|--------|--------|-----------|------------|------------|----------|---------|
| 0.00   | 6.00   | 12.9      | 13.2       | -0.254     | 100.     | 0.00    |
| 0.0156 | 3.00   | 13.2      | 13.2       | -0.00601   | 99.8     | 0.222   |
| 0.0313 | 3.00   | 13.9      | 13.1       | 0.732      | 99.6     | 0.363   |
| 0.0625 | 3.00   | 13.6      | 13.1       | 0.507      | 99.4     | 0.577   |
| 0.125  | 3.00   | 12.6      | 13.1       | -0.455     | 99.1     | 0.896   |
| 0.250  | 3.00   | 13.3      | 13.0       | 0.261      | 98.6     | 1.36    |
| 0.500  | 3.00   | 11.8      | 12.9       | -1.17      | 98.0     | 2.02    |
| 1.00   | 3.00   | 13.4      | 12.8       | 0.636      | 97.1     | 2.94    |

!!!Warning: EC5 not bracketed by doses evaluated.

!!!Warning: EC25 not bracketed by doses evaluated.

!!!Warning: EC50 not bracketed by doses evaluated.

Analysis of Weighted Variance

| Source            | SS      | DF     | MS       |
|-------------------|---------|--------|----------|
| Residual          | 1.9075  | 24.000 | 0.079480 |
| Means Lack-of-Fit | 0.68519 | 5.0000 | 0.13704  |
| Within groups     | 1.2223  | 19.000 | 0.064333 |

Directly-fitted parameters and Asymptotic Covariances

| Parameter    | Estimate | Std.Err. | Correlations |
|--------------|----------|----------|--------------|
| Control Mean | 13.189   | 0.38316  | 1.0000       |
|              |          |          | 0.59646      |
|              |          |          | 0.66043      |

File: \NUTHATCH\NUTHATCH.OUT Page 3  
 Log10 EC50 = 3.5746 11.601 0.59646 1.0000 0.99393  
 Bruce&V. SIGMA = 1.8917 6.0593 0.66043 0.99393 1.0000  
 Starting Values 13.303 3.2993 1.9258  
 CARR-WT.DAT : Weight - carrot  
 Raw data:

Control  
 0.638  
 0.399  
 0.960  
 0.379  
 0.259  
 0.322  
 0.0156  
 0.292  
 0.776  
 0.423  
 0.0313  
 0.648  
 0.151  
 0.252  
 0.0625  
 0.548  
 0.099  
 0.436  
 0.125  
 0.338  
 0.526  
 0.294  
 0.25  
 0.286  
 0.229  
 0.670  
 0.50  
 0.162  
 0.583  
 0.350  
 1.00  
 0.082  
 0  
 0.326

CARR-WT.DAT : Weight - carrot Williams Test

[One-Sided Test for Decrease, alpha = 0.050000 ]

Dose Isotone T-bar P-value Significance  
 Means

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0.494 -0.008522 N.S.  
 0.0156 0.694 0.7347 N.S.  
 0.0313 0.373 0.7347 N.S.  
 0.0625 0.373 0.7347 N.S.  
 0.125 0.373 0.7347 N.S.  
 0.25 0.373 0.7347 N.S.  
 0.5 0.365 0.7843 N.S.  
 1 0.136 2.189 0.024 \*

\*\*\*=Significant; "N.S."=Not Significant.

Estimates of EC%

| Parameter | Estimate | 95% Bounds<br>Lower | Upper | Std.Err.<br>/Estimate | Lower Bound<br>Estimate |
|-----------|----------|---------------------|-------|-----------------------|-------------------------|
| EC1       | 0.27     | 0.027               | 2.7   | 0.48                  | 0.10                    |
| EC5       | 0.37     | -0.066              | 2.1   | 0.36                  | 0.18                    |
| EC25      | 0.59     | 0.23                | 1.5   | 0.20                  | 0.39                    |
| EC50      | 0.81     | 0.48                | 1.4   | 0.11                  | 0.59                    |

Slope = 4.95 Std.Err. = 4.43

Goodness of fit:  $p = 0.93$  based on DF = 5.0 19.  
 CARR-WT.DAT : Weight - carrot

Observed vs. Predicted Treatment Group Means

| Dose   | #Reps. | Obs.<br>Mean | Pred.<br>Mean | Obs.<br>-Pred. | Pred.<br>%Control | %Change  |
|--------|--------|--------------|---------------|----------------|-------------------|----------|
| 0.00   | 6.00   | 0.493        | 0.426         | 0.0670         | 100.              | 0.00     |
| 0.0156 | 3.00   | 0.497        | 0.426         | 0.0711         | 100.              | 2.61e-14 |
| 0.0313 | 3.00   | 0.350        | 0.426         | -0.0755        | 100.              | 1.41e-10 |
| 0.0625 | 3.00   | 0.361        | 0.426         | -0.0649        | 100.              | 1.91e-06 |
| 0.125  | 3.00   | 0.386        | 0.426         | -0.0398        | 100.              | 0.00307  |
| 0.250  | 3.00   | 0.395        | 0.423         | -0.0283        | 99.4              | 0.593    |
| 0.500  | 3.00   | 0.365        | 0.361         | 0.00413        | 84.7              | 15.3     |
| 1.00   | 3.00   | 0.136        | 0.137         | -0.000561      | 32.1              | 67.9     |

Analysis of Weighted Variance

| Source            | SS      | DF     | MS       |
|-------------------|---------|--------|----------|
| Residual          | 2.8813  | 24.000 | 0.12006  |
| Means Lack-of-Fit | 0.18569 | 5.0000 | 0.037138 |
| Within Groups     | 2.6956  | 19.000 | 0.14188  |

Directly-fitted parameters and Asymptotic Covariances

| Parameter       | Estimate    | Std.Err. | Correlations |
|-----------------|-------------|----------|--------------|
| Control Mean    | = 0.42586   | 0.050147 | 1.0000       |
| Log10 EC50      | = -0.094041 | 0.11003  | -0.40078     |
| Bruce&V. SIGMA  | = 0.20188   | 0.18059  | 0.28163      |
| Starting Values | 0.49422     | -0.33789 | 1.1064       |

RAPE-EM.DAT : Seedling emergence

Raw data:

Seedling emergence  
 8  
 6



| Parameter | Estimate | 95% Bounds | Lower   | Upper | Std.Err. | Lower Bound /Estimate |
|-----------|----------|------------|---------|-------|----------|-----------------------|
| EC1       | 0.16     | 0.0022     | 12.     |       | 0.90     | 0.014                 |
| EC5       | 0.55     | 0.11       | 2.7     |       | 0.34     | 0.20                  |
| EC25      | 3.2      | 0.13       | 76.     |       | 0.67     | 0.042                 |
| EC50      | 11.      | 0.027      | 4.4E+03 |       | 1.3      | 0.0025                |

Slope = 1.27 Std.Err. = 1.46

Goodness of fit: p = 0.83 based on DF= 5.0 19.

RAPE-EM.DAT : Seedling emergence

Observed vs. Predicted Treatment Group Means

| Dose   | #Reps. | Obs. Mean | Pred. Mean | Obs. -Pred. | Pred. %Control | %Change |
|--------|--------|-----------|------------|-------------|----------------|---------|
| 0.00   | 6.00   | 9.17      | 9.44       | -0.269      | 100.           | 0.00    |
| 0.0156 | 3.00   | 9.33      | 9.43       | -0.101      | 100.           | 0.0158  |
| 0.0313 | 3.00   | 9.67      | 9.43       | 0.237       | 99.9           | 0.0643  |
| 0.0625 | 3.00   | 9.67      | 9.41       | 0.252       | 99.8           | 0.226   |
| 0.125  | 3.00   | 9.67      | 9.37       | 0.297       | 99.3           | 0.699   |
| 0.250  | 3.00   | 9.33      | 9.26       | 0.0761      | 98.1           | 1.89    |
| 0.500  | 3.00   | 8.67      | 9.01       | -0.345      | 95.5           | 4.50    |
| 1.00   | 3.00   | 8.67      | 8.55       | 0.121       | 90.6           | 9.44    |

!!!Warning: EC25 not bracketed by doses evaluated.

!!!Warning: EC50 not bracketed by doses evaluated.

Analysis of Weighted Variance

| Source            | SS      | DF     | MS       |
|-------------------|---------|--------|----------|
| Residual          | 1.6378  | 24.000 | 0.068242 |
| Means Lack-of-Fit | 0.16221 | 5.0000 | 0.032443 |
| Within Groups     | 1.4756  | 19.000 | 0.077663 |

Directly-fitted parameters and Asymptotic Covariances

| Parameter       | Estimate | Std.Err. | Correlations |
|-----------------|----------|----------|--------------|
| Control Mean    | 9.4357   | 0.21856  | 1.0000       |
| Log10 EC50      | 1.0383   | 1.2630   | 0.43195      |
| Bruce&V. SIGMA  | 0.78990  | 0.91041  | 0.52260      |
| Starting Values | 9.4444   | 5.9663   | 4.1006       |

CARR-EM.DAT : Seedling emergence - carrot

Raw data:

Seedling emergence - carrot

- 8
- 6
- 3
- 3
- 3
- 3
- 3
- 3
- Control
- 7

| Dose   | Isotone Means | T-bar   | P-value | Significance |
|--------|---------------|---------|---------|--------------|
| 0      | 9.44          | -0.466  | N.S.    |              |
| 0.0156 | 9.44          | -0.466  | N.S.    |              |
| 0.0313 | 9.44          | -0.466  | N.S.    |              |
| 0.0625 | 9.44          | -0.466  | N.S.    |              |
| 0.125  | 9.44          | -0.466  | N.S.    |              |
| 0.25   | 9.33          | -0.2796 | N.S.    |              |
| 0.5    | 8.67          | 0.8389  | N.S.    |              |
| 1      | 8.67          | 0.8389  | N.S.    |              |

###=Significant; "N.S."=Not Significant.

Estimates of EC%

RAPE-EM.DAT : Seedling emergence

Williams Test

[One-Sided Test for Decrease, alpha = 0.050000 ]



Observed vs. Predicted Treatment Group Means

| Dose   | #Reps. | Obs. Mean | Pred. Mean | Obs. -Pred. | Pred. %Control | %Change |
|--------|--------|-----------|------------|-------------|----------------|---------|
| 0.00   | 6.00   | 7.33      | 7.30       | 0.0287      | 100.           | 0.00    |
| 0.0156 | 3.00   | 5.67      | 7.27       | -1.60       | 99.5           | 0.466   |
| 0.0313 | 3.00   | 8.33      | 7.23       | 1.10        | 99.0           | 1.01    |
| 0.0625 | 3.00   | 8.67      | 7.16       | 1.51        | 98.0           | 2.02    |
| 0.125  | 3.00   | 6.00      | 7.03       | -1.03       | 96.2           | 3.80    |
| 0.250  | 3.00   | 7.00      | 6.82       | 0.183       | 93.3           | 6.68    |
| 0.500  | 3.00   | 6.00      | 6.50       | -0.499      | 89.0           | 11.0    |
| 1.00   | 3.00   | 6.33      | 6.06       | 0.278       | 82.9           | 17.1    |

!!!Warning: EC25 not bracketed by doses evaluated.  
 !!!Warning: EC50 not bracketed by doses evaluated.

Analysis of Weighted Variance

| Source            | SS     | DF     | MS      |
|-------------------|--------|--------|---------|
| Residual          | 10.945 | 24.000 | 0.45606 |
| Means Lack-of-Fit | 3.1400 | 5.0000 | 0.62799 |
| Within Groups     | 7.8055 | 19.000 | 0.41081 |

Directly-fitted parameters and Asymptotic Covariances

| Parameter       | Estimate | Std.Err. | Correlations |
|-----------------|----------|----------|--------------|
| Control Mean    | 7.3046   | 0.61710  | 1.0000       |
| log10 EC50      | 1.0404   | 1.9621   | 0.45465      |
| Bruce&V. SIGMA  | 1.0950   | 1.8769   | 0.62593      |
| Starting Values | 7.4667   | 3.3181   | 3.5677       |

CARR-EM.DAT : Seedling emergence - carrot

| Dose   | Isotone Means | T-bar  | P-value | Significance |
|--------|---------------|--------|---------|--------------|
| 0      | 7.47          | -0.114 | N.S.    |              |
| 0.0156 | 7.47          | -0.114 | N.S.    |              |
| 0.0313 | 7.47          | -0.114 | N.S.    |              |
| 0.0625 | 6.5           | 0.7124 | N.S.    |              |
| 0.125  | 6.5           | 0.7124 | N.S.    |              |
| 0.25   | 6.17          | 0.9973 | N.S.    |              |
| 0.5    | 6.17          | 0.9973 | N.S.    |              |

!!!Warning: EC25 not bracketed by doses evaluated.  
 !!!Warning: EC50 not bracketed by doses evaluated.

Analysis of Weighted Variance

| Source            | SS     | DF     | MS      |
|-------------------|--------|--------|---------|
| Residual          | 10.945 | 24.000 | 0.45606 |
| Means Lack-of-Fit | 3.1400 | 5.0000 | 0.62799 |
| Within Groups     | 7.8055 | 19.000 | 0.41081 |

Directly-fitted parameters and Asymptotic Covariances

| Parameter       | Estimate | Std.Err. | Correlations |
|-----------------|----------|----------|--------------|
| Control Mean    | 7.3046   | 0.61710  | 1.0000       |
| log10 EC50      | 1.0404   | 1.9621   | 0.45465      |
| Bruce&V. SIGMA  | 1.0950   | 1.8769   | 0.62593      |
| Starting Values | 7.4667   | 3.3181   | 3.5677       |

!!!Warning: EC25 not bracketed by doses evaluated.  
 !!!Warning: EC50 not bracketed by doses evaluated.

Estimates of ECX

| Parameter | Estimate | 95% Bounds | Lower   | Upper | Std.Err. | Lower Bound /Estimate |
|-----------|----------|------------|---------|-------|----------|-----------------------|
| EC1       | 0.031    | 1.7E-07    | 5.6E+03 | 94.   | 2.5      | 5.6E-06               |
| EC5       | 0.17     | 0.00032    | 1.0E+02 | 94.   | 1.3      | 0.0018                |
| EC25      | 2.0      | 0.039      | 1.0E+02 | 94.   | 0.83     | 0.020                 |
| EC50      | 11.      | 0.00098    | 1.2E+05 | 94.   | 2.0      | 8.9E-05               |

Slope = 0.913 Std.Err. = 1.57

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