

MRID No. 438698-02

DATA EVALUATION RECORD
§ 71-2(A) -- UPLAND GAME BIRD DIETARY LC₅₀ TEST

1. **CHEMICAL:** Captan PC Code No.: 081301

2. **TEST MATERIAL:** Captan Technical Purity: 90%

3. **CITATION:**

Authors: B. Hakin, A.J. Johnson, A. Anderson, and I.S. Dawe

Title: Captan: Dietary Toxicity (LC₅₀) Study with the Bobwhite Quail

Study Completion Date: November 28, 1990

Laboratory: Huntingdon Research Centre Ltd.,
Huntingdon, Cambridgeshire, U.K.

Sponsor: Zeneca Inc.

Laboratory Report ID: ISN 230/901123

MRID No.: 438698-02

DP Barcode: Not available.

4. **REVIEWED BY:** Rosemary Graham Mora, M.S., Environmental Scientist, KBN Engineering and Applied Sciences, Inc.

Signature:

[Handwritten Signature] for RBM

Date:

4/2/96

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

Signature:

[Handwritten Signature] P. Kosalwat

Date:

4/2/96

5. **APPROVED BY:**

Signature:

[Handwritten Signature] Gary Crain

Date:

6/6/96

6. **STUDY PARAMETERS:**

Scientific Name of Test Organism: *Colinus virginianus*

Age of Test Organisms at Test Initiation: 11 days old

Definitive Study Duration: 8 days

7. **CONCLUSIONS:** This study is scientifically sound and meets the guideline requirements for an acute avian dietary toxicity study using bobwhite quail. The LC₅₀ was >5200 ppm nominal, which classifies the test material as practically non-toxic to the bobwhite quail. The NOEC was 1300 ppm nominal since no birds at or below this test level demonstrated signs of toxicity during the study.

Results Synopsis

LC₅₀: >5200 ppm

NOEC: 1300 ppm

95% C.I.: N/A

Probit Slope: N/A



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8. ADEQUACY OF THE STUDY:

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

9. GUIDELINE DEVIATIONS: The brooder temperature was not reported. The guidelines recommend a brooder temperature of 35°C.

10. SUBMISSION PURPOSE:

11. MATERIALS AND METHODS:

A. Test Organisms

Guideline Criteria	Reported Information
Species: An upland game bird species, preferably the bobwhite (<i>Colinus virginianus</i>).	<i>Colinus virginianus</i>
Age at beginning of test: 10-14 days old.	11 days old
Supplier	D.R. and R.E. Wise, Monkfield, Bourn, England
Chicks appeared healthy and did not have excessive mortality before the test?	Not reported.
Acclimation period: As long as possible.	10 days

B. Test System

Guideline Criteria	Reported Information
Pen size: about 35 x 100 x 24 cm	83 X 52 X 51 cm
Brooder temperature: about 35°C (95°F)	Not reported. A 300-watt infra-red lamp was suspended over each pen to provide additional heat.

Guideline Criteria	Reported Information
Room temperature: 22-27°C (71-81°F)	Minimum: 25 ±1.6°C Maximum: 28 ±1.4°C
Relative humidity: 30-80%	49 ±4%
Adequate ventilation?	Yes
Photoperiod Minimum of 14 h of light.	Continuous light
Diet: A commercial diet for game birds.	Standard HRC chick diet in meal form

C. Test Design

Guideline Criteria	Reported Information
Range finding test?	None reported.
Definitive Test Nominal concentrations: Four minimum, 5 or 6 strongly recommended, in a geometric scale, unless LC ₅₀ > 5000 ppm.	163, 325, 650, 1300, 2600, and 5200 ppm (not corrected for purity).
Controls: Control group tested with diet containing the maximum amount of vehicle used in treated diets?	Yes. Three control groups were used.
Number of birds per group: 10 (strongly recommended)	10 birds per group
Vehicle: Distilled water, corn oil, propylene glycol, 1% carboxymethyl cellulose, or gum arabic.	None
Vehicle amount (% of diet by weight): Not more than 2%	N/A

Guideline Criteria	Reported Information
Test durations: 5 days with treated feed and at least 3 days observation with "clean" feed.	3 days pretreatment 5 days with treated diet 3 days observation period
No mortality during last 72 hr of observations?	No mortality occurred during the last 72 hours of observation.

12. REPORTED RESULTS:

Guideline Criteria	Reported Information
Quality assurance and GLP compliance statements were included in the report?	Yes
Body weights measured at beginning and end of study?	Group mean body weights were recorded 3 days prior to test initiation, at test initiation and Days 5 and 8.
Estimated consumption per pen reported for pretreatment, treatment, and observation periods?	Yes
Control Mortality: Not more than 10%	Only one bird in the second control group died on Day 4.
Raw data included?	Yes
Signs of toxicity (if any) were described?	None

Mortality

Conc. (ppm)		No. of Birds	Cumulative Number of Dead							
Nominal	Mean Measured		Day of Study							
			1	2	3	4	5	6	7	8
Controls	<12	30	0	0	0	1	1	1	1	1
163	159	10	0	0	0	0	0	0	0	0
325	321	10	0	0	0	0	0	0	0	0

