

EXPERIMENTAL: Treated Hen Data #22 (4) and #6 (5)
(Continued) Project No. 409925

Compound: 14C-Metalaxyl	Chicken(s): Hen 22 (4) Hen 6 (5)	Age(s): 66 wks.	Body Weights (kg): Initial Hen 22 1.63 Hen 6 1.40 Final Hen 22 1.63 Hen 6 1.40 Avg. Hen 22 1.63 Hen 6 1.40	Avg. Egg Production: Acclimation Hen 22 86% Hen 6 100% Test Period 100% 75%																				
C-G Representative: 5.1.2e Woo	Location: VBRC Vero Beach, FL	Acclimation: 7 days 1/9-16/89	Dosing: 4 days 1/16-19/89																					
Dose: 10 mg 14C-Metalaxyl/ hen/day 377 µCi/hen/day	mg/kg Body Weight: Hen 22 61.3 mg Hen 6 71.4 mg	Feed Consumption Purging Test Period Hen 22 133 g/day Hen 6 63 g/day	Feed Level Equivalence: Hen 22 75 ppm 14C-Metalaxyl Hen 6 159 ppm 14C-Metalaxyl																					
Sacrifice: 6.33-6.45 hrs. after the fourth dose Date: 1/19/89	Items Sampled/Shipped: Gizzard Excreta Lean Meat Skin + Fat Liver Kidney Peritoneal Fat	Items Sampled/Shipped Refrigerated Blood Egg Yolks Egg Whites																						
Summary of Results:	<table border="1"> <thead> <tr> <th>Acclimation</th> <th>Test Period</th> <th>Hen #22 (4)</th> <th>Hen #6 (5)</th> </tr> </thead> <tbody> <tr> <td>237 ml/day</td> <td>223 ml/day</td> <td>176 ml/day</td> <td>200 ml/day</td> </tr> <tr> <td>139 g/day</td> <td>133 g/day</td> <td>112 g/day</td> <td>63 g/day</td> </tr> <tr> <td>86%</td> <td>100%</td> <td>100%</td> <td>75%</td> </tr> <tr> <td>163 g/day</td> <td>148 g/day</td> <td>118 g/day</td> <td>98 g/day</td> </tr> </tbody> </table>				Acclimation	Test Period	Hen #22 (4)	Hen #6 (5)	237 ml/day	223 ml/day	176 ml/day	200 ml/day	139 g/day	133 g/day	112 g/day	63 g/day	86%	100%	100%	75%	163 g/day	148 g/day	118 g/day	98 g/day
Acclimation	Test Period	Hen #22 (4)	Hen #6 (5)																					
237 ml/day	223 ml/day	176 ml/day	200 ml/day																					
139 g/day	133 g/day	112 g/day	63 g/day																					
86%	100%	100%	75%																					
163 g/day	148 g/day	118 g/day	98 g/day																					

Daily values are tabulated on page 8.
Animal(s) Health: Both hens #22 and #6 remained healthy throughout the study.
Necropsy report given on page 9.

COMMENTS

1. The tables in this report include:
 - a. Table 1, "Production of Excreta and Eggs, Daily Water and Feed Consumption, and Body Weights," pps. 7 and 8.
 - b. Chicken Necropsy Report, p. 9.
2. Test Animals
The white Leghorn (H and N) hens used in the study were purchased from Anthony Farms, 2520 Banana Road, Lakeland, Florida 33809 on 8/31/88. The birds were approximately 66 weeks of age when the study began on 1/16/89.
3. Deviations from the protocol include:
 - a. The hens were significantly older than 40 weeks.
 - b. Predose samples were collected earlier than scheduled to avoid collecting on the weekend.
 - c. Commercial bottled drinking water was used, not well water.
 - d. The stability capsule was shipped along with the A shipment, not within two days of the last dose.
4. Temperature ranged from 69-73°F and relative humidity between 54-65% during the test period.
5. The interval between the final treated dose and sacrifice was 5.97-6.45 hours. The birds were sacrificed by cervical dislocation.
6. The birds were maintained on a 24-hour continuous lighting regime for the duration of the study.
7. Hen #6 did not lay a Day 3 egg. Day 4 eggs were excised from Hens #3 and #32. Hen #25 did not have a Day-4 egg. Hen #22 laid her Day-3 egg within the Day-2 dose period.
8. Hens #3, #32, #25, #22, and #6 represent Hens 1, 2, 3, 4, and 5, respectively, as described in the protocol.

COMMENTS (Continued)

9. All hens were housed in plastic coated wire cages.
10. On dose Day 4, the hens were sacrificed approximately six hours after the fourth dose; therefore, Day 4 feed and water consumption and excreta production were excluded from the averaged data.
11. Calculation for feed level equivalency:

$$\frac{\text{mg compound/day} + \text{avg. daily feed consumption (gms)} \times 1000}{1000} = \text{equivalent ppm of feed}$$

Dit document is geen eigendom van het CtgB en wordt beschikbaar gemaakt vallen onder de wetten op grond waarvan de auteursrechten en/of derden rusten, waaronder intellectuele eigendomsrechten en/of auteursrechten, of de inhoud hiervan zonder de toestemming van de rechthebbende. Op dit document worden geen rechten van derden rusten, waaronder intellectuele eigendomsrechten en/of auteursrechten, of de inhoud hiervan zonder de toestemming van de rechthebbende.

The document is not the property of the CtgB and only provided based on mandatory freedom of information requirements. rights of third parties. Furthermore, this document may be subject to intellectual property and copy regime. Consequently, any publication, distribution, reproduction and/or publishing and any commercial exploitation and use of this document or its contents without the permission of the owner of this document may therefore be prohibited and violate the right of its owner.

TABLE 1
Production of Excreta and Eggs, Daily Water and Feed Consumption, and Body Weights

Project: 409925

Date (1989)	Water (ml)		Feed (g)		Excreta (g)		Egg Production	
	3 ¹	32 ² 25 ³	3	32 25	3	32 25	3	32 25
1/9-10	220	200 125	109	110 109	118 109	93	+	+
1/10-11	185	180 200	119	113 102	166 114	109	+	+
1/11-12	230	230 200	130	120 127	173 111	137	o	+
1/12-13	250	240 180	133	135 122	191 140	125	+	+
1/13-14	230	220 180	137	127 120	168 128	134	+	+
1/14-15	270	230 200	136	123 124	217 128	152	+	+
1/15-16	180	180 190	124	116 117	165 117	143	+	+
Average	224	211 182	127	121 117	171 121	128	86%	100% 86%
Day								
1/16-17	210	230 200	133	122 118	147 123	126	+	+
1/17-18	200	220 160	134	127 114	135 122	122	+	+
1/18-19	180	180 130	110	106 55	145 118	85	+	+
1/19/89	70	80 80	48	42 47	40 45	35	+	o
*Average	197	210 163	126	118 96	142 121	111	100%	100% 75%

Initial Body Weights: 3 = 1.72 kg; 32 = 1.53 kg; 25 = 1.57 kg

Final Body Weights: 3 = 1.75 kg; 32 = 1.59 kg; 25 = 1.55 kg

3¹ = Treated hen (1); 32² = Treated hen (2); 25³ = Treated hen (3)

*Only 3 out of the 4 treatment days were averaged because of the short time between dosing and sacrifice on Day 4, except for egg production.
Table 1 continued on page 8.

TABLE 1 (Continued)
Production of Excreta and Eggs, Daily Water and Feed Consumption, and Body Weights

Project: 409925

Date	Schedule	Water (ml)		Feed (g)		Excreta (g)		Egg Production	
		22 ¹	6 ²	22	6	22	6	22	6
1/9-10	Accl.	310	250	128	128	165	151	+	+
1/10-11	Accl.	240	220	136	137	153	136	+	+
1/11-12	Accl.	220	140	136	129	181	136	+	+
1/12-13	Accl.	230	140	146	109	168	102	o	+
1/13-14	Accl.	220	160	144	94	147	88	+	+
1/14-15	Accl.	220	170	143	111	157	112	+	+
1/15-16	Accl.	220	150	141	74	169	99	+	+
Average		237	176	139	112	163	118	86%	100%
1/16-17	Day	240	150	139	76	159	71	+	+
1/17-18	Day	220	230	134	72	132	104	+	+
1/18-19	Day	210	220	127	41	154	118	+	o
1/19/89	Day	60	40	45	10	53	30	+	+
*Average		223	200	133	63	148	98	100%	75%

Initial Body Weights: 22 = 1.63 kg; 6 = 1.47 kg

Final Body Weights: 22 = 1.62 kg; 6 = 1.32 kg

22¹ = Treated Hen (4); 6² = Treated hen (5)

*Only 3 out of the 4 test days were averaged because of the short time span between Day 4 dosing and sacrifice, except for egg production.

ADDENDUM 1

BIOCHEMISTRY DEPARTMENT
AGRICULTURAL DIVISION
CIBA-GEIGY CORPORATION
VERO BEACH, FLORIDA

CHICKEN NECROPSY REPORT

Biochem. Protocol No.: 158-88
Project No.: 409925
Experiment No.: M88-409-001A
Compound: ¹⁴C-Metalaxyl

<u>Date of Sacrifice</u>	<u>Test Day</u>	<u>Bird No.</u>	<u>Treatment mg/day</u>	<u>Necropsy Findings</u>
1/19/89	4	3	10 mg/day	Normal - 1 inch cyst in right vestigial oviduct..
	4	32	10 mg/day	Normal - 2.5 inch cyst in right vestigial oviduct.
	4	25	10 mg/day	Normal - 1.5 inch cyst in right vestigial oviduct.
	4	22	10 mg/day	Normal - 1.5 inch cyst in right vestigial oviduct.
	4	6	10 mg/day	Normal - 1.5 inch cyst in right vestigial oviduct.

The occurrence of these cysts in older, high egg producing hens are very common.

Necropsy performed by 5.1.2.e Woo.