Validation Sheet

Formulation: Assumed to be 100% a.i.

Chemical Name: San 326 I

Validator: Ray Matheny

Date: 3/14/79

Test Type: Avian Subacute Dietary LC50

Test I.D. #: Project No. 131-106


Validation Category: Core

Result:

<table>
<thead>
<tr>
<th>Species</th>
<th>Test LC50</th>
<th>Confidence Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobwhite Quail</td>
<td>138 ppm*</td>
<td>(106 - 180 ppm)</td>
</tr>
</tbody>
</table>

Using the probit method, the LC50 is verified at 138 ppm (103 - 185).

Validation Category Rationale: Satisfies core data requirements.

Category Reparability/Rationale: NA

Abstract: Six groups of bobwhites were dosed at 31.6, 56.2, 100, 178, 316 and 562 ppm. Mortalities occurring at these levels were 0, 1, 3, 5, 10 & 10, respectively. Five males & 5 females were tested in each group. At the two lower levels, toxic symptoms were transient lethargy, wing droop & toe picking. At the higher levels, other symptoms included nostral picking, depression, reduced reaction to external stimuli, lower limb weakness lethargy. A marked dose related reduction in food consumption was recorded at the two highest levels.
0.3 data 10,10,5,3,1,6

79/03/12, 12:59:02.
BASIC  PGMRCM  APLLC50

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ONC.          NUMBER          NUMBER          PERCENT          BINOMIAL
            EXPOSED          DEAD          DEAD          PROB. (PERCENT)

 562            10            10            100            9.76563E-2
 316            10             4            100            9.76563E-2
 178            10             5             50            62.3047
 100            10             3             30            17.1875
 56.2           10             1             10            1.07422
 31.6           10             0               0            9.76563E-2

THE BINOMIAL TEST SHOWS THAT 56.2 AND 31.6 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS SINCE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS 98.8281 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 178.

--------RESULTS CALCULATED USING THE MOVING AVERAGE METHOD--------
SPAN 6  LC50  95 PERCENT CONFIDENCE LIMITS
      .115337  131.296  95.9965  178.808

--------RESULTS CALCULATED USING THE PROBIT METHOD--------
ITERATIONS 6  H  GOODNESS OF FIT PROBABILITY
      .183345  1  .632468
SLOPE 4.07848
95 PERCENT CONFIDENCE LIMITS = 2.33212 AND 5.82483
LC50 138.579
95 PERCENT CONFIDENCE LIMITS = 103.566 AND 185.485

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