

US EPA ARCHIVE DOCUMENT



E9001447

Shaughnessy 103395

## DATA EVALUATION RECORD

1. CHEMICAL: Streptomycin sulfate
2. TEST MATERIAL: Agri-Strep
3. TEST TYPE: Acute Toxicity for Freshwater Fish- Bluegill
4. STUDY IDENTIFICATION: Fredrick G. Pitcher, A Fish Toxicity Laboratory Report, February 23, 1981.
5. REVIEWED: Carol J. Belew, Biological *Carol J. Belew*  
EFED/EEB
6. APPROVED: Les Touart, Section Head *LT 6/6/82*  
EFED/EEB
7. CONCLUSION: This study is scientifically sound and fulfills the requirements for a core study. The study indicates that Streptomycin is practically non-toxic Bluegill at the highest concentration tested ( 180 ppm) during the 96 hour observation period.
8. METHODS AND MATERIALS: See attached Laboratory Report.



P. JOHNSON RAVEN 9-15-82

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Chemical & Biological Investigations Branch, TSD  
Bldg 402, ARS-East, Beltsville, MD. 20705

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BIOLOGICAL LABORATORIES REPORT

From Region \_\_\_\_\_

Date October 16, 1974

|   |   |
|---|---|
| S<br>A<br>M<br>P<br>L<br>E<br><br>I<br>D<br>E<br>N<br>T   | Sample <u>MB 283</u> Code(s) _____ EPA Reg # <u>618-28-AA</u> Establishment # _____ |
|   | Product Name <u>Agri-Strep</u>  |
|   | Manufacturer <u>Merck Chemical Division, Merck Company</u>                          |
|   | Address <u>Merck &amp; Co., Kenilworth, New Jersey</u>                              |
| Physical Form <u>ly / Conc</u> <input type="checkbox"/> W.P. <input type="checkbox"/> P.S. <input type="checkbox"/> Acro. <input type="checkbox"/> Dist |   |
| Ingredients: <input type="checkbox"/> Granular <input type="checkbox"/> Bait <input type="checkbox"/> Other   |   |
| <u>Streptomycin sulfate 21.2%</u>   |   |

|                         |   |
|-------------------------|---|
| T<br>E<br>S<br>T        | Laboratory: <u>Animal Biology</u> Method: <u>TSD 1.206</u>  |
|                         | Type Test: <u>Static Jar Test</u> Duration: <u>96 hr.</u>   |
|                         | Test Organism(s): <u>Bluegill (L. macrochirus)</u> Diluent: <u>Water</u>  |
|                         | Source: <u>Welaka National Fish Hatchery</u>  |
|                         | Average Length: <u>28 mm</u> Average Weight: <u>.31 gm</u>  |
|                         | Fish/Jar: <u>10</u> Fish/Conc: <u>10</u> Conc. Tested: <u>3</u> Water Volume: <u>15 l</u>                                   |
|                         | Water Temperature: <u>18 °C</u> Dissolved O <sub>2</sub> : <u>&gt; 6</u> ppm Calcium Hardness: <u>17.1</u> ppm              |
|                         | pH: <u>7.0</u> Alkalinity: <u>41.04</u> ppm. Dissolved CO <sub>2</sub> : <u>&lt; 10</u> ppm Total Hardness: <u>51.3</u> ppm |
| Test number: <u>75C</u> |   |

|                                 |  |
|---------------------------------|--|
| S<br>U<br>M<br>M<br>A<br>R<br>Y | Agri-Strep can not be expected to kill bluegill at a concentration of 180 ppm within 96 hours of exposure. |
|                                 | BEST DOCUMENT AVAILABLE  |

|                                 |   |
|---------------------------------|---|
| R<br>E<br>S<br>U<br>L<br>T<br>S | Agri-Strep was added to vessels, each containing 10 bluegill to obtain concentrations of 180, 100, 56 ppm. No mortality occurred in the highest concentration tested during the 96 hour observation period. |
|                                 | MICROFICHE CREATED<br>DATE: <u>2-23-81</u>  |

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Laboratory Supervisor: John A. Malcom

Tested By: Fredrick L. Fitchie