



E9001448

Shaughnessy #103394

DATA EVALUATION RECORD

- 1. CHEMICAL: Streptomycin Sulfate
- 2. TEST MATERIAL: Agri-Strep: Streptomycin Sulfate: 21.2%
Inert ingredients: 78.8%
- 3. TEST TYPE: Acute Toxicity for Freshwater Fish - Trout
- 4. STUDY IDENTIFICATION: Fish Toxicity Laboratory Report,
Animal Biology Laboratory, EPA-PR, ARC, Beltsville, Md.
I.D. Number: MB283 February 23, 1981.
MRID: 103394
- 5. REVIEWED: Carol J. Belew, Biologist *Carol J. Belew*
EFED/EEB *6/16/92*
- 6. APPROVED: Les Touart, Section Head *LT*
EFED/EEB
- 7. CONCLUSIONS: This study is scientifically sound and
fulfills the requirements for a core study. The study
indicates that Streptomycin is practically non-toxic Rainbow
Trout. The LC₅₀ was determined to be above 180 ppm.
- 8. RECOMMENDATIONS: NA
- 9. BACKGROUND: NA
- 10. METHODS AND MATERIALS:
 - A. Test Organisms: Trout (Salmo gairdnerii - currently
Oncoirhynchus mykiss)
Age/stage of maturity: Not provided
Size: Average length = 38.7 mm and Average weight =
.48 grams.
Source: Wytheville National Fish Hatchery
 - B. Dosage Form:
Solvents/vehicles: None
Route of administration: In solution
 - C. Referenced Protocol
Test level: 180, 100 and 56 ppm.
Holding/acclimation: The test organisms were held for
a ten day observation period and were acclimated for
three days just prior to testing.
Number per level: 20
Feeding: Not reported



Physical condition: The fish appeared to be in good physical condition at test initiation.

Test Condition

Temperature: 55°F

Dissolved oxygen: 6.0 ppm

pH/hardness: pH = 7.0, hardness: 51.3 ppm

Source of dilution water: Demineralized water

1,000,000 ohms resistivity reconstituted to U.S. Fish and Wildlife Service Standard.

Test vessels: 5 gallon glass jar.

Static/Renewal/Flo-through: static

Loading:

Aeration: No

Photoperiod: Not reported

Controls: Not reported.

Measured test levels: 180, 100, and 56 ppm.

Observation period: 96 hours

Statistical methods: No statistical analysis was necessary because the LC50 was determined to be higher than the highest tested dose.

11. REPORTED RESULTS:

Effects criteria: Mortality, and abnormal physical and behavior characteristics.

LC₅₀: 180 ppm

NOEL: Not reported

Dose response data: Not reported.

Observation period: 96 hours

Test conditions

Temperature: 55°F

Dissolved oxygen: 6.0 ppm

pH/hardness: pH = 7.0, hardness = 51.3 ppm

12. STUDY AUTHOR'S CONCLUSIONS/QUALITY ASSURANCE MEASURES:

Agri-Strep can not be expected to kill rainbow trout at a concentration of 180 ppm formulation within 96 hours of exposure. The study was performed by USDA- Beltsville, therefore, the Quality Assurance Statement is not required.

13. REVIEWER'S DISCUSSION AND INTERPRETATION OF THE STUDY:

A. Test Procedures: The study was scientifically sound and fulfills the EPA guideline requirements.

B. Statistical Analysis: Statistical analysis was necessary because the LC50 was determined to be higher than the highest dose tested.

C. Discussion/Results: The study was scientifically sound and fulfills the EPA requirements for a core study. The LC50 was determined to be higher than the highest dose level tested of 180 ppm.

- D. Adequacy of Test:
1. Validation Category: Core
 2. Rationale:
 3. Repairability:

13. COMPLETION OF ONE-LINER FOR TEST: