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 EFED/EEB

6. **APPROVED:** Les Touart, Section Head 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: