United States Patent [19]

Hamill et al.

[54] A-21978 ANTIBIOTICS AND PROCESS FOR THEIR PRODUCTION

- [75] Inventors: Robert L. Hamill, Greenwood; Marvin M. Hoehn, Indianapolis, both of Ind.
- [73] Assignee: Eli Lilly and Company, Indianapolis, Ind.
- [21] Appl. No.: 206,749

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[22] Filed: Nov. 14, 1980

Related U.S. Application Data

- [60] Continuation-in-part of Ser. No. 41,274, May 21, 1979, abandoned, which is a division of Ser. No. 951,695, Oct. 16, 1978, Pat. No. 4,208,403.
- [51] Int. Cl.³ C07C 103/52
- [58] Field of Search 260/112.5 R

References Cited

PUBLICATIONS

Shoji et al., J. Antibiotics, 1976, vol. 29, pp. 380-389, 1268-1274, 1275-1280.

Primary Examiner—Dale R. Ore Attorney, Agent, or Firm—Nancy J. Harrison; Arthur R. Whale

[57] ABSTRACT

[56]

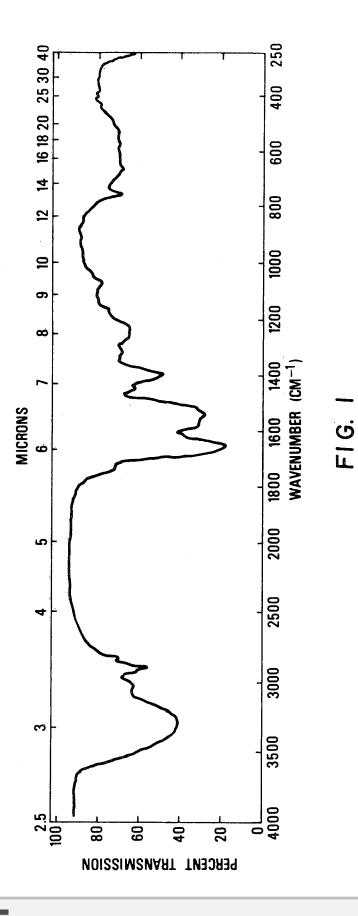
Antibiotic A-21978 complexes, in particular the A-21978C complex, comprising microbiologically active, related factors, C₀, C₁, C₂, C₃, C₄, and C₅. A-21978 complex and A-21978C complex are produced by submerged aerobic fermentation of *Streptomyces roseosporus* NRRL 11379. The individual A-29178C factors are separated and isolated by chromatography. The A-21978 and A-21978C complexes, the A-21978C factors, and pharmaceutically acceptable salts thereof are antibacterial agents and improve growth promotion in poultry.

18 Claims, 7 Drawing Figures

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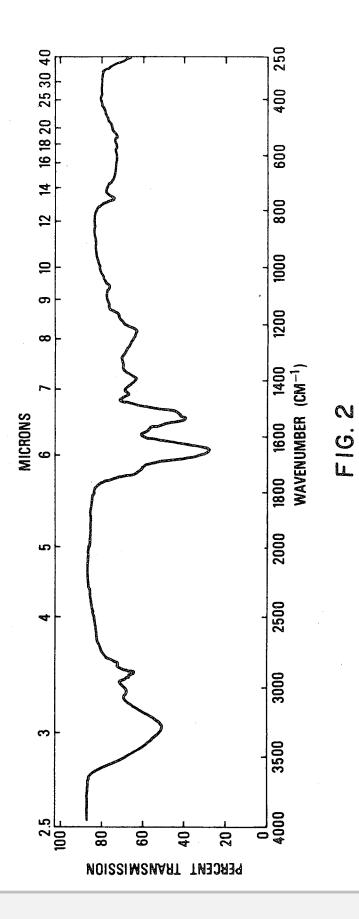
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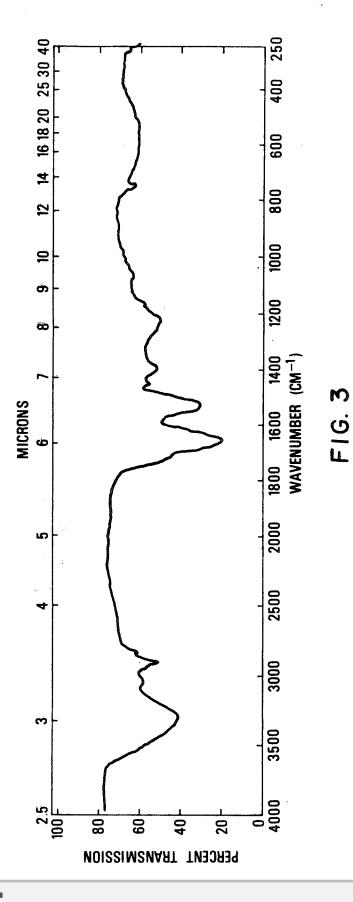
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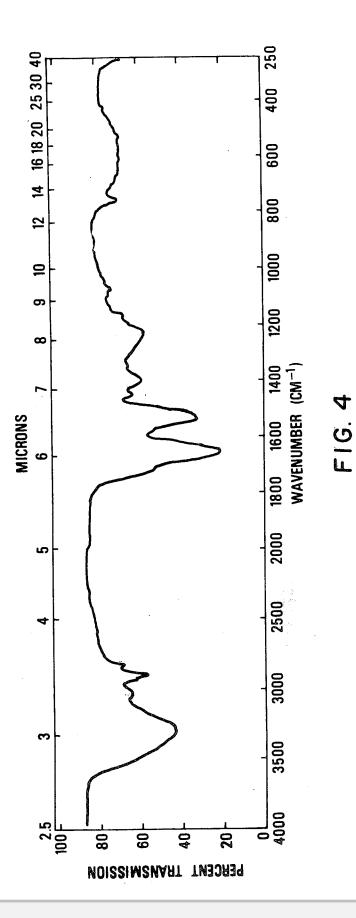
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