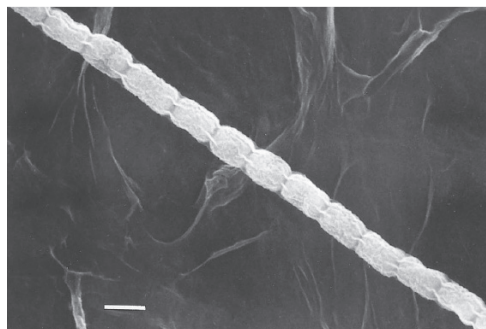


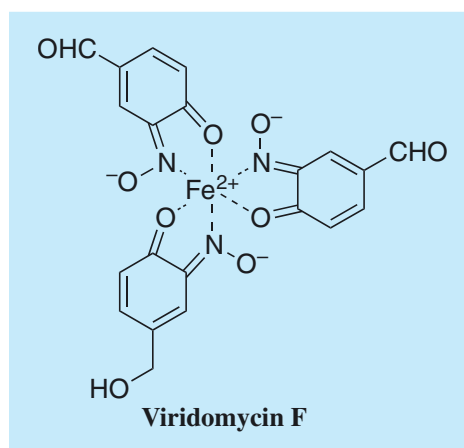
Viridomycin F

1. Discovery, producing organism and structure^{1,2)}

Viridomycin F was isolated from the culture broth of the actinomycete strain K96-0188 while screening for new antibiotics. Viridomycin F, a complex of iron and *p*-substituted *o*-nitrosophenol trimer, exhibited moderate insecticidal and nematocidal activity. It belongs to a group of green actinomycete pigments including viridomycins, actinoviridin, and ferroverdin.



Streptomyces sp. K96-0188



2. Physical data

Green powder. $C_{21}H_{14}N_3O_9Fe$; mol wt 508.21. Sol. in DMSO, MeOH, acetone. Insol. in H_2O , $CHCl_3$.

3. Biological activity¹⁾

1) Insecticidal and nematocidal activities

Viridomycin F affected the motility of brine shrimp *Artemia salina* at 200 $\mu\text{g/ml}$ and free-living nematodes *Caenorhabditis elegans* at 500 $\mu\text{g/ml}$.

4. References

- [711] S. Ōmura *et al.*, *J. Antibiot.* **52**, 61-64 (1999)
- C.-C. Yang, & J. Leong, *Antimicrob. Agents Chemother.* **20**, 558-562 (1981)