

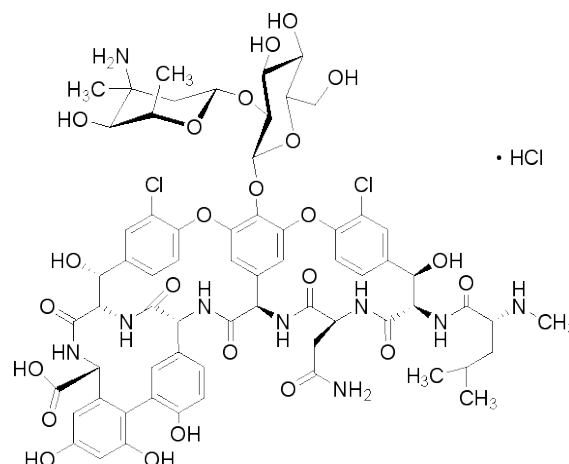
Product Information Sheet

V8370 Vancomycin Solution (100 mg/mL)

Synonyms: N/A
CAS: 1404-93-9
Formula: $C_{66}H_{75}Cl_2N_9O_{24} \cdot HCl$
Mol. Weight: 1485.73

Properties

Form: Liquid
Appearance: Clear to Slight Yellow Tint
Application: Plant Tissue Culture Antibiotic
Solubility: Miscible with Water
Storage Temp: -20 to 0 °C
Other Notes: Plant Tissue Culture Tested
This antibiotic is most effective against Gram-positive bacteria.



Application Notes

Vancomycin is a glycopeptide antibiotic produced by *Streptomyces orientalis* that is effective against most Gram-positive bacteria.² Its main mode of action is to block the formation of peptidoglycan of the bacterial cell wall; however, vancomycin also damages protoplast cytoplasmic membrane and inhibits bacterial RNA synthesis.²⁻⁴ It has been reported that vancomycin, when combined with other aminoglycoside has shown to be very effective against enterococci as well as vancomycin-tolerant strains.²

PhytoTechnology Laboratories® also carries vancomycin hydrochloride powder, Product No. V870.

Please Note: While PhytoTechnology Laboratories® tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References

1. Merck **13**, 9995
2. *Martindale: The Complete Drug Reference*, 35th ed., Paul S. Blake, Ed. (Royal Pharmaceutical Society, 2007), p. 320.
3. Watanakunakorn, C. 1981. The Antibacterial action of vancomycin. *Rev. Infect. Dis.* 3 Suppl S: 210-215.
4. Watanakunakorn, C. 1984. Mode of action and in-vitro activity of vancomycin. *J. Antimicrob. Chemother.* 14 Suppl D: 7-18.

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