

Product Information Sheet

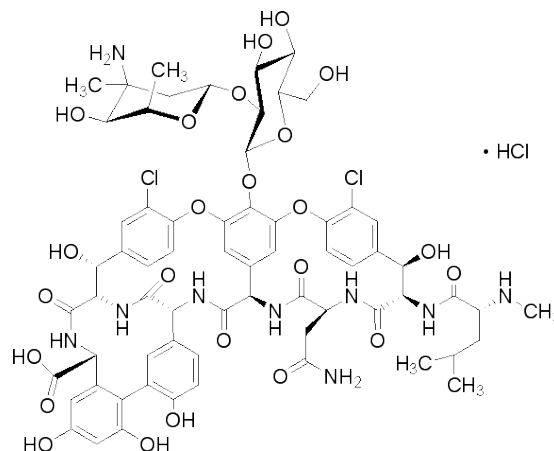
V870

Vancomycin Hydrochloride

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

Properties

Form: Powder
 Appearance: Cream to Tan Powder
 Application: Plant Tissue Culture Antibiotic
 Solubility: Soluble in Water
 Storage Temp: 2 to 6 °C
 Stock Solution: 2 to 6 °C for short-term; optimal stability at
 Storage Temp: pH 3 to 5.
 Other Notes: Plant Tissue Culture Tested



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

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.

India Contact

Life Technologies (India) Pvt Ltd.

306, Agarwal City Mall, Road 44, Pitampura, Delhi - 110034 (India)

Tel: +91-11-4220-8000; 4220-8111; 4220-8222 Fax: +91-11-4220-8444, Mobile: +91-98105-21400

Email - customerservice@lifetechindia.com | customerservice@atzlabs.com