



Product Information Sheet

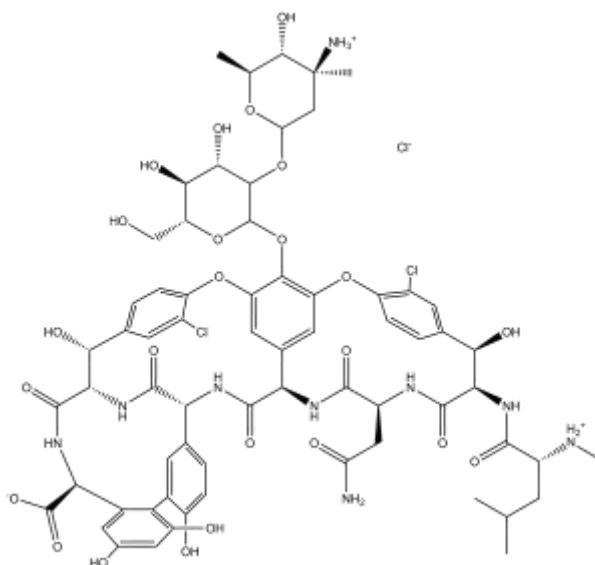
V870

Vancomycin Hydrochloride

Synonyms: N/A
CAS: 1404-93-9
Formula: $C_{66}H_{75}Cl_2N_9O_{24} \cdot HCl$
Mol. Weight: 1485.72 g/mol

Properties:

Form: Powder
Appearance: Cream to Tan Powder
Application: Plant Tissue Culture Antibiotic
Solubility: Soluble in Water
Storage Temp: -20°C
Stock Solution Storage Temp: -20°C
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 (Martindale 2007). Its main mode of action is to block the second stage of bacterial cell wall formation (Watanakunakorn 1984).

Vancomycin has traditionally been used to stop *Agrobacterium* growth (Valvekens *et al.* 1988) because it is generally non-toxic to plant cells (Pollock *et al.* 1983)

PhytoTechnology Laboratories® also carries Vancomycin Solution (100 mg/mL), Product No. V8370.

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:

Merck 13, 9995

Martindale: *The Complete Drug Reference*, 35th ed., Paul S. Blake, Ed. (Royal Pharmaceutical Society, 2007), p. 320.

Pollock K, Barfield DG, and R Shields (1983) The Toxicity of Antibiotics to Plant Cell Cultures. *Plant Cell Reports* 2:36-39

Valvekens D, Montagu MV, and MV Lusebettens (1988) *Agrobacterium tumefaciens*-mediated transformation of *Arabidopsis thaliana* root explants by using kanamycin selection. *PNAS* 85:5536-5540.

Watanakunakorn C (1984) Mode of action and in-vitro activity of vancomycin. *J. Antimicrob. Chemother.* 14 Suppl D: 7-18.

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