



LKT Laboratories, Inc.

Virginiamycin Mixture

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID V3327

CAS No. 21411-53-0 , 23152-29-6

Chemical Name

Synonym Virginiamycin M1 and S1 mixture

Formula $C_{28}H_{35}N_3O_7$, $C_{43}H_{49}N_7O_{10}$

Formula Wt. 525.598239

Melting Point

Purity $\geq 97\%$

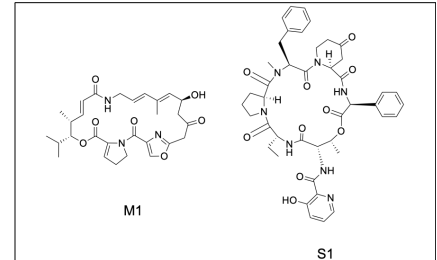
Solubility Soluble in ethanol, methanol, DMSO, Dichloromethane, DMF, and sparingly, in water.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description

Virginiamycin Mixture is a mixture of virginiamycin M 1 and virginiamycin S1. Virginiamycin is a macrolide antibiotic commonly used in livestock as a growth promoter; it is also occasionally used to prevent microbial contamination in ethanol fuels. Virginiamycin is an antibacterial that binds 23S rRNA of the bacterial 50S ribosome, inhibiting peptidyl transferase activity. This compound displays insecticidal activity against *Leptinotarsa* and acaricidal activity against *Tetranychus*.



Bulk quantities available upon request

Product ID	Size
V3327	5 mg
V3327	25 mg
V3327	100 mg
V3327	250 mg

References Batista L, Rivera M, Fonseca M, et al. The influence of virginiamycin on digestion and ruminal parameters under feedlot conditions. *Transl Anim Sci.* 2024 Feb 14;8:txae019. PMID: 38406320.

Compart DM, Carlson AM, Crawford GI, et al. Presence and biological activity of antibiotics used in fuel ethanol and corn co-product production. *J Anim Sci.* 2013 May;91(5):2395-404. PMID: 23463564.

Qiu Y, Yang F, Liu Z, et al. Determination of virginiamycin M1 and S1 residues in livestock and poultry products by liquid chromatography-tandem mass spectrometry. *Se Pu.* 2012 May;30(5):463-7. PMID: 22934408.

Champney WS, Tober CL. Specific inhibition of 50S ribosomal subunit formation in *Staphylococcus aureus* cells by 16-membered macrolide, lincosamide, and streptogramin B antibiotics. *Curr Microbiol.* 2000 Aug;41(2):126-35. PMID: 10856379.

Prikrylová V, Samoukina GV, Kandybin NV, et al. Pesticidal activity of virginiamycins S1 and M1. *Folia Microbiol (Praha).* 1992;37(5):386-8. PMID: 1493906.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.