



Product Information

Product ID T9945

CAS No. 1405-54-5

Chemical Name (R-(R*,R*)))-2,3-dihydroxybutanedioate Tylosin (salt)

Synonym Pharmasin

Formula $C_{46}H_{77}NO_{17} \cdot C_4H_6O_6$

Formula Wt. 1066.19

Melting Point

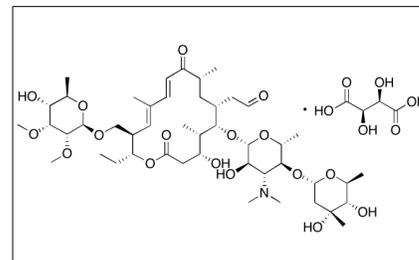
Purity $\geq 90\%$

Solubility Soluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Tylosin is a macrolide antibiotic originally produced by *Streptomyces*. Like other macrolides, tylosin binds the 50S subunit of the bacterial ribosome, suppressing mitochondrial protein translation; it inhibits peptidyl transferase, preventing translocation. Tylosin displays antibacterial efficacy against most gram positive and some gram negative bacteria such as *Campylobacter*.



Bulk quantities available upon request

Product ID	Size
T9945	1 g
T9945	5 g
T9945	10 g

References Liu M, Douthwaite S. Resistance to the macrolide antibiotic tylosin is conferred by single methylations at 23S rRNA nucleotides G748 and A2058 acting in synergy. *Proc Natl Acad Sci U S A*. 2002 Nov 12;99(23):14658-63. PMID: 12417742.

Zalacain M, Cundliffe E. Methylation of 23S rRNA caused by tlrA (ermSF), a tylosin resistance determinant from *Streptomyces fradiae*. *J Bacteriol*. 1989 Aug;171(8):4254-60. PMID: 2753855.

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