



## Product Information

Product ID T9946

CAS No. 1405-53-4

**Chemical Name**

Synonym Farmazin TB, Tylosin phosphate salt

Formula  $C_{46}H_{77}NO_{17} \cdot H_3PO_4$

Formula Wt. 1014.11

**Melting Point**

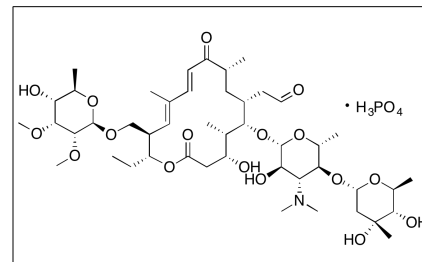
Purity  $\geq 90\%$

Solubility Soluble in water, alcohol or chloroform.

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
T9946	1 g
T9946	5 g
T9946	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.