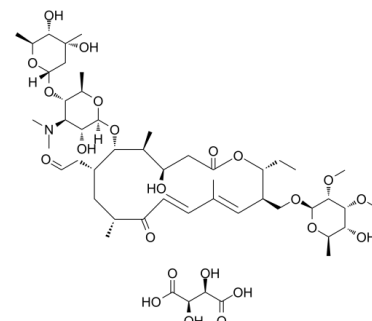


## Data Sheet

<b>Product Name:</b>	Tylosin (tartrate)
<b>Cat. No.:</b>	CS-2732
<b>CAS No.:</b>	74610-55-2
<b>Molecular Formula:</b>	C <sub>50</sub> H <sub>83</sub> NO <sub>23</sub>
<b>Molecular Weight:</b>	1066.19
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	H <sub>2</sub> O : ≥ 100 mg/mL (93.79 mM); DMSO : ≥ 100 mg/mL (93.79 mM)



### BIOLOGICAL ACTIVITY:

Tylosin tartrate is an antibiotic with a large macrocyclic lactone ring. Target: Antibacterial Tylosin tartrate is a bacteriostat food additive used in veterinary medicine. It has a broad spectrum of activity against gram-positive organisms and a limited range of gram-negative organisms. There is no significant evidence that tylosin resistant staphylococci of animal origin have endangered human health. Tylosin tartrate is not effective against the gram-negative intestinal flora, which thus does not lead to selection of R-factors by conjugation. From the human medical stand point, there is no reason that precludes the use of tylosin as a fee additive in animal feeds [1]. Minimum inhibitory concentrations for tylosin tartrate and other commonly used antibiotics were determined for 103 isolates. Most (82.61%) of the isolates not exposed to antibiotics in the 3 months before submission were sensitive to tylosin tartrate. These findings suggest that tylosin tartrate warrants further study as a first-line option for the treatment of dogs initially presenting with pyoderma [2].

### References:

- [1]. Knothe, H., A review of the medical considerations of the use of tylosin and other macrolide antibiotics as additives in animal feeds. *Infection*, 1977. 5(3): p. 183-7.
- [2]. Scott, B.A., et al., Efficacy of tylosin tartrate on canine *Staphylococcus intermedius* isolates in vitro. *Vet Ther*, 2010. 11(3): p. E1-7.

### CAIndexNames:

Tylosin, (2R,3R)-2,3-dihydroxybutanedioate (1:1)

### SMILES:

C[C@@H](O[C@@]1([H])O[C@H]([C@H]([C@@H](CC2=O)O)C)[C@H](C[C@H](C/C=C/C(C)=C/[C@H](CO[C@H](O[C@H](C)[C@@H](O)[C@H]3OC)[C@@H]3OC)[C@@H](CCO2)=O)C)CC=O)[C@H]([C@@H]([C@H]1O)N(C)C)O[C@@](O[C@@H](C)[C@@H]4O)([H])C[C@]4(O)C.O[C@@H](C(O)=O)[C@@H](O)C(O)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

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