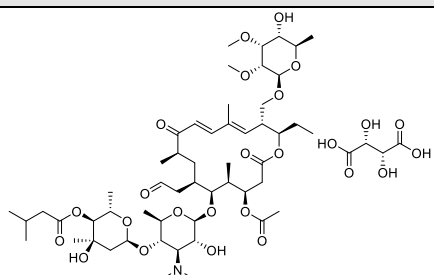


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
464768	Tylvalosin tartrate	C21B07B30

Chemical name	
(2S,3S,4R,6S)-6-(((2R,3S,4R,5R,6R)-6-(((4R,5S,6S,7R,9R,11E,13E,15R,16R)-4-acetoxy-16-ethyl-15-(((2R,3R,4R,5R,6R)-5-hydroxy-3,4-dimethoxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)methyl)-5,9,13-trimethyl-2,10-dioxo-7-(2-oxoethyl)oxacyclohexadeca-11,13-dien-6-yl)oxy)-4-(dimethylamino)-5-hydroxy-2-methyltetrahydro-2H-pyran-3-yl)oxy)-4-hydroxy-2,4-dimethyltetrahydro-2H-pyran-3-yl 3-methylbutanoate (2R,3R)-2,3-dihydroxysuccinate	
Synonyms	
Tylvalosin tartrate; Acetylisovaleryltylosin tartrate	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 464768 Name: Tylvalosin tartrate CAS#: 63428-13-7 (tartrate) Lot#: C21B07B30 Chemical Formula: C ₅₇ H ₉₃ NO ₂₅ Exact Mass: 1191.6037 Molecular Weight: 1192.35

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>95.0%
Solubility	Soluble in DMSO
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE