

Product Name:	Toltrazuril
Product Number:	T124
CAS Number:	69004-03-1
Molecular Formula:	C ₁₈ H ₁₄ F ₃ N ₃ O ₄ S
Molecular Weight:	425.38
Solubility:	DMSO (85 mg/ml). Insoluble in water and ethanol.
Source:	Synthetic
Storage Conditions:	2-8C
Description:	Toltrazuril is an antiprotozoal agent that acts upon Coccidia parasites in animals, fish, and man. Its primary metabolites include toltrazuril sulfoxide and toltrazuril sulfone. Toltrazuril can also be used as an analytical standard in food and environmental testing. The compound is soluble in DMSO.
Mechanism of Action:	Toltrazuril induces changes in the coccidia such that the intracellular stages (schizonts, gamonts) were destroyed. Anatomical changes include swelling of the endoplasmic reticulum and Golgi, and abnormalities in nuclear division leading to a reduction in respiratory enzymes.
Spectrum:	Antiprotozoal agent
References:	Fathi M, Sadraei J, and Ghaffarifar F (2011) Effects of two anticoccidial drugs, Monensin, Toltrazuril and the mixture of them on <i>Cryptosporidium parvum</i> in vitro. Jundishapur J. Microbiol. 4(2): 71-74 Martinez-Villalba A, Moyano E, Martins CPB and Galceran MT (2010) Fast liquid chromatography/tandem mass spectrometry (highly selective selected reaction monitoring) for the determination of toltrazuril and its metabolites in food. Anal. Bioanal. Chem. 397(7):2893-2901 Mehlhorn H, Schmahl G and HAberkorn A (1988) Toltrazuril effective against a broad spectrum of protozoan parasites. Parasitol. Res. 75(1):64-66 PMID 3144713 Strohbusch M, Muller N, Hemphill A, Greif G and Gottstein B (2008) NcGA2 as a molecular target to assess the parasitocidal activity of toltrazuril against <i>Neospora caninum</i> . Parasitol. 135(9):1065-1073