

Product Name:	Enramycin B, EvoPure®
Product Number:	E019
CAS Number:	34304-21-7
Molecular Formula:	$C_{108}H_{140}Cl_2N_{26}O_{31}$
Molecular Weight:	2369.32
Form:	Powder
Solubility:	slightly soluble in water and freely soluble in dilute HCl solution.
Source:	Semi-synthetic
Storage Conditions:	-20°C
Description:	<p>Enramycin B, EvoPure® is a highly purified form of Enramycin B. Enramycin is a polypeptide antibiotic produced by <i>Streptomyces fungicidus</i> and developed as a food additive in Japan. Enramycin is composed of two different compounds: Enramycin A and Enramycin B. The ratios of A and B varies but is typically ~70:30. Enramycin is slightly soluble in water and freely soluble in dilute HCl solution.</p> <p>We also offer:</p> <ul style="list-style-type: none">• Enramycin (E006)• Enramycin A, EvoPure® (E018)
Mechanism of Action:	Enramycin acts as a MurG inhibitor involved in peptidoglycan synthesis in Gram-positive bacteria. MurG catalyzes the transglycosylation reaction in the last step of peptidoglycan biosynthesis. Inhibition of this step greatly compromises cell wall integrity leading to cell death by lysis.
Spectrum:	Enramycin is effective against Gram-positive bacteria and inhibits development of major gut flora pathogens. Resistance or cross-resistance with existing antibiotics has rarely been observed.
Technical Data:	HPLC, NMR, FTIR, and MS analysis may be available. For more info, please email info@toku-e.com .
References:	Fang X et al (2006) The mechanism of action of Ramoplanin and Enduracidin. Royal Soc. Chem. 2: 69-76 PMID 16880924