

Product Name:	α -apo-oxytetracycline, EvoPure [®]
Product Number:	O009
CAS Number:	18695-01-7
Molecular Formula:	C ₂₂ H ₂₂ N ₂ O ₈
Molecular Weight:	442.42
Solubility:	Water: very slightly soluble (0.2 mg/mL)
Source:	semi-synthetic
Storage Conditions:	-20°C
Description:	<p>α-Apo-oxytetracycline, EvoPure[®] (oxytetracycline-related compound D) is an oxytetracycline metabolite and impurity found in commercial oxytetracycline. It is formed via acid hydrolysis of oxytetracycline. It is an isomer of β-Apo-oxytetracycline that forms readily in acidic and basic media. It can be used as a QC standard during stability studies of oxytetracycline and can be used to study the degradation pathway and products of tetracyclines. α-Apo-oxytetracycline, EvoPure[®] is very slightly soluble in water.</p> <p>We also offer:</p> <ul style="list-style-type: none">• 4-Epi-oxytetracycline, EvoPure[®] (oxytetracycline-related compound A) (O008)• β-Apo-oxytetracycline, EvoPure[®] (oxytetracycline-related compound E) (O010)
Mechanism of Action:	Oxytetracycline causes inhibition of protein synthesis. It binds to the 30S ribosomal subunit and prevents the amino-acyl tRNA from binding to the A site of the ribosome.
Spectrum:	broad-spectrum, including Gram-negative and Gram-positive bacteria.
Technical Data:	HPLC, NMR, FTIR, and MS analysis may be available. For more info, please email info@toku-e.com .
References:	<p>Halling-Sorensen B, Sengelov G and Tjornelund J (2002) Toxicity of tetracyclines and tetracycline degradation products to environmentally relevant bacteria, including selected tetracycline-resistant bacteria. Arch. Environ. Contam. Toxicol. (2002) 42(3): 263-271 PMID 11910453</p> <p>Richeng X et al (2010) Hydrolysis and photolysis of Oxytetracycline in aqueous solution. J. Environ. Sci. and Health 45:73-81 PMID 20390934</p> <p>Lykkeberg AK, Halling-Sørensen B, Cornett C, Tjørnelund J and Honoré HS (2004) Quantitative analysis of Oxytetracycline and its impurities by LC-MS-MS. J. Pharm. Biomed. Anal. 34(2):325-332 PMID 15013146</p>

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