bioaustralis
fine chemicals

Chlortetracycline Degradation Set

Code No.: **BIA-MS5031**

Specifications

Each set contains 1 x 1mg vial of each of the following products:

Vial #	Compound	Code No.	CAS #	Mol. Formula	Mol. Wt.
1	Chlortetracycline hydrochloride	BIA-C1506	64-72-2	$C_{22}H_{24}Cl_2N_2O_8$	515.3
2	Anhydrochlortetracycline hydrochloride	BIA-A1552	65490-24-5	$C_{22}H_{22}Cl_2N_2O_7$	497.3
3	Epianhydrochlortetracycline hydrochloride	BIA-E1346	158018-53-2	$C_{22}H_{22}Cl_2N_2O_7$	497.3
4	Epichlortetracycline hydrochloride	BIA-E1345	101342-45-4	$C_{22}H_{24}Cl_2N_2O_8$	515.4

Long Term Storage : **-20°C, protect from light**

Stability : **Stable for more than 1 year when stored at -20°C, protected from light**

Short Term Storage : **Stable at ambient temperature for 1-2 weeks, protected from light**

Shipping : **Ambient temperature**

Purity : **Minimum purity of >95% by HPLC**

Solubility :

Product Description: Chlortetracycline is the first tetracycline discovered from nature and has been one of the most important antibiotics in human and animal health for over 60 years. Chlortetracycline is a linear tetracycle which can be degraded under various conditions, such as acidity, alkalinity, heat, oxidation, light and temperature. The degradation products are not biologically inert; rather they are oxidative and isomeric analogues with unique physical and chemical properties that are not well characterised. The Chlortetracycline Degradation Set provides the major degradation products described in the literature as a tool for understanding and monitoring the fate of chlortetracycline in biological systems and on storage.