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ANALOGUE SET DATA SHEET

Tetracycline Degradation Set

Code No.: **BIA-MS5011**

Specifications

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

Vial #	Compound	Code No.	CAS #	Mol. Formula	Mol. Wt.
1	Tetracycline	BIA-T1334	60-54-8	$C_{22}H_{24}N_2O_8$	444.4
2	Anhydrotetracycline hydrochloride	BIA-A1340	13803-65-1	$C_{22}H_{23}ClN_2O_7$	462.9
3	Epianhydrotetracycline hydrochloride	BIA-E1341	4465-65-0	$C_{22}H_{23}ClN_2O_7$	462.9
4	Epitetracycline hydrochloride	BIA-E1339	23313-80-6	$C_{22}H_{25}ClN_2O_8$	480.9

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 : **Methanol, ethanol, DMSO and water**

Product Description: Tetracycline is a potent broad spectrum antibiotic that has played a pivotal role in human and animal health for over 60 years. Tetracycline 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 Tetracycline Degradation Set provides the major degradation products described in the literature as a tool for understanding and monitoring the fate of tetracycline on storage and in biological systems.

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