

Oxytetracycline Degradation Set

Code No.: **BIA-MS5030**

Specifications

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

Vial #	Compound	Code No.	CAS #	Mol. Formula	Mol. Wt.
1	Oxytetracycline	BIA-O1336	79-57-2	C ₂₂ H ₂₄ N ₂ O ₉	460.4
2	α-Apooxytetracycline	BIA-A1343	18695-01-7	C ₂₂ H ₂₂ N ₂ O ₈	442.4
3	β-Apooxytetracycline	BIA-A1344	18751-99-0	C ₂₂ H ₂₂ N ₂ O ₈	442.4
4	Epooxytetracycline	BIA-E1342	14206-58-7	C ₂₂ H ₂₄ N ₂ O ₉	460.4

- 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 : **Methanol, ethanol, DMSO, moderate water solubility**

Product Description: Oxytetracycline is a potent member of the tetracycline antibiotic class that has played a pivotal role in human and animal health for over 50 years. Oxytetracycline is a linear tetracycline 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 Oxytetracycline Degradation Set provides the major degradation products described in the literature as a tool for understanding and monitoring the fate of oxytetracycline on storage and in biological systems.

Updated: 8 September 2014