

## Oxytetracycline Degradation Set

Code No.: BIA-MS5030

Pack sizes.: 1mg, 5mg

### Oxytetracycline Degradation Set

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Product	Code No.	CAS #	Mol. Formula	Mol Wt.	Qty
Oxytetracycline	BIA-O1336	79-57-2	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub>	460.4	1mg
α-Apoxytetracycline	BIA-A1343	18695-01-7	C <sub>22</sub> H <sub>22</sub> N <sub>2</sub> O <sub>8</sub>	442.4	1mg
β-Apoxytetracycline	BIA-A1344	18751-99-0	C <sub>22</sub> H <sub>22</sub> N <sub>2</sub> O <sub>8</sub>	442.4	1mg
Epioxytetracycline	BIA-E1342	14206-58-7	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub>	460.4	1mg

### Synonyms:

1mg or 5mg of each compound

## Specifications

CAS #	: <b>Varied</b>
Molecular Formula	: <b>Varied</b>
Molecular Weight	: <b>Varied</b>
Source	: -
Appearance	: <b>Varied</b>
Purity	: -
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Methanol, ethanol, DMSO, moderate water solubility</b>

## Application Notes

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. | 1. Oxytetracycline - (CAS# 79-57-2) - Molecular Formula: C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>9</sub> - Molecular Weight: 460.4 | 2. alpha-Apoxytetracycline - (CAS# 18695-01-7) - Molecular Formula: C<sub>22</sub>H<sub>22</sub>N<sub>2</sub>O<sub>8</sub> - Molecular Weight: 442.4 | 3. beta-Apoxytetracycline - (CAS# 18751-99-0) - Molecular Formula: C<sub>22</sub>H<sub>22</sub>N<sub>2</sub>O<sub>8</sub> - Molecular Weight: 442.4 | 4. Epioxytetracycline - (CAS# 14206-58-7) - Molecular Formula: C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>9</sub> - Molecular Weight: 460.4

## References