bioaustralis
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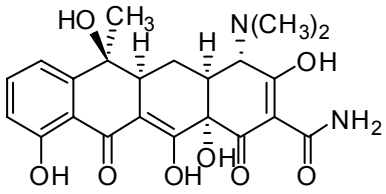
PRODUCT DATA SHEET

Tetracycline

Code: **BIA-T1334**

Pack sizes: **5 mg, 25 mg**



Synonyms : **Achromycin, Ambramycin**

Specifications

CAS #	:	**60-54-8**
Molecular Formula	:	**$C_{22}H_{24}N_2O_8$**
Molecular Weight	:	**444.4**
Source	:	***Streptomyces* sp.**
Appearance	:	**Yellow solid**
Purity	:	**>98%**
Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.**

Application Notes

Tetracycline is a linear tetracyclic broad spectrum antibiotic first prepared chemically by dechlorination of chlortetracycline and subsequently isolated from several *Streptomyces* species. Tetracycline is a pigment and, like many pigments, is degraded by light, oxygen, trace metal ions and pH variations. The purity of tetracycline is often variable with significant levels of degradation products. At BioAustralis, tetracycline has been purified to remove contaminants and is provided as the free base.

References

1. Tetracycline. Conover L. **1955** US Patent 2,699,054.
2. Anhydrotetracycline is a major product of tetracycline photolysis. Hasan T.J. *et al.* Org. Chem. **1985**, 50, 1755.
3. Kinetics of concomitant degradation of tetracycline to epitetracycline, anhydrotetracycline, and epianhydrotetracycline in acid phosphate solution. Yuen P.H. & Sokoloski T.D. J. Pharm. Sci. **1977**, 66, 1648.

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