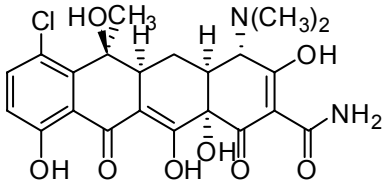
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Chlortetracycline

Code: **BIA-C1335**

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



Synonyms : **Aureomycin, Chlorotetracycline, Biomycin, Duomycin**

Specifications

CAS #	:	**57-62-5**
Molecular Formula	:	**$C_{22}H_{23}ClN_2O_8$**
Molecular Weight	:	**478.9**
Source	:	***Streptomyces* sp.**
Appearance	:	**Yellow solid**
Purity	:	**>98%**
Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Chlortetracycline was the first reported member of the tetracycline class, isolated from *Streptomyces aureofaciens* in 1948. Chlortetracyclines heralded the early wave of antibiotic discoveries from microbes and after 50 years are still widely used as pharmaceuticals. Chlortetracycline is a pigment and, like most pigments, is extremely sensitive to environmental and storage conditions. Commercial chlortetracycline may contain significant levels of degradation products. At BioAustralis, chlortetracycline has been purified to remove contaminants and is provided as the free base.

References

1. Aureomycin, a new antibiotic. Broschard R.W. *et al.* Science **1949**, 109, 199.
2. Chemical stability of chlortetracycline and chlortetracycline degradation products and epimers in soil interstitial water. Soeborg T. *et al.* Chemosphere **2004**, 57, 1515.

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