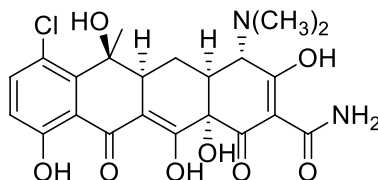


Chlortetracycline

Code No.: **BIA-C1335**

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



Synonyms : Aureomycin, Chlorotetracycline, Biomycin

Specifications

CAS #	: 57-62-5
Molecular Formula	: C ₂₂ H ₂₃ ClN ₂ O ₈
Molecular Weight	: 478.9
Source	: <i>Streptomyces</i> sp.
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term 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.

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.