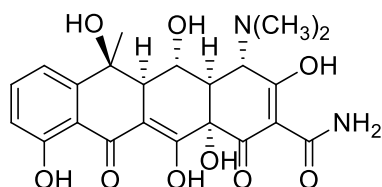


## Oxytetracycline

Code No.: **BIA-O1336**

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



Synonyms : Terramycin

### Specifications

CAS #	: 79-57-2
Molecular Formula	: $C_{22}H_{24}N_2O_9$
Molecular Weight	: 460.4
Source	: <i>Streptomyces</i> sp.
Appearance	: Light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

### Application Notes

Oxytetracycline (terramycin) is a linear, tetracyclic broad spectrum antibiotic originally isolated from *Streptomyces rimosus* in 1949. Like all tetracyclines, oxytetracycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis. Oxytetracycline, although less coloured than other tetracyclines, is still a pigment and is thus sensitive to environmental and storage conditions. Commercial oxytetracycline may contain significant levels of degradation products.

### References

1. Terramycin, a new antibiotic. Finlay A.C. et al., Science 1950, 111, 85.
2. The structure of terramycin. Hochstein F.A.J. et al., Am. Chem. Soc. 1953, 75, 5455.
3. Quantitative analysis of oxytetracycline and its impurities by LC-MS-MS. Lykkeberg A.K. et al., J. Pharm. Biomed. Anal. 2004, 34, 325.