



The most reliable LC-EC applications for Antibiotics analysis

Aminoglycosides

Amikacin
Framycetin Sulphate
Gentamicin Sulphate
Kanamycin Sulphate
Lincomycin
Neomycin
Spectinomycin
Tobramycin

Macrolide antibiotics

Azithromycin
Azaerythromycin
Clarithromycin
Erythromycin
Roxithromycin

Tobramycin in Pharmaceutical Preparations

- **European Pharmacopoeia 6.0 (2008) used as basis for this application**
- **FlexCell with exchangeable gold electrode**
- **Analysis of main substituent and impurities**
- **Reproducible & robust**

Summary

The European Pharmacopoeia describes a method for the analysis of Tobramycin and its impurities based on LC-PAD [3]. The ALEXYS analyzer based on the Antibiotics LC base system with post-column addition kit is a dedicated solution for the analysis of aminoglycoside antibiotics using a silica-based C18 column.

In this application note results are shown for the analysis of Tobramycin and its impurities using the ALEXYS analyzer.



Tobramycin in Pharmaceutical Preparations

References

1. David A. Stead, "Current methodologies for the analysis of aminoglycosides", J. Chromatogr. B, 747 (2000) 69–93
2. W.R. LaCourse, "Pulsed Electrochemical Detection in High Performance Liquid Chromatography", John Wiley & Sons, New York, 1ed,1997.
3. "Tobramycin", European Pharmacopoeia, 6.0, (2008) 3085-3086

Ordering information

180.0050W	Aminoglycoside Analyzer including Flowcell
250.1070	ALA-525 C18 column, 250x4.6mm, 5um

For research purpose only. The information shown in this communication is solely to demonstrate the applicability of the ALEXYS system. The actual performance may be affected by factors beyond Antec's control. Specifications mentioned in this application note are subject to change without further notice.

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