

Simultaneous Determination Of Aminoglycoside Antibiotics

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Simultaneous Determination Of Aminoglycoside Antibiotics A sensitive, rapid and reproducible method has been developed based on high performance liquid chromatography with evaporative light scattering detection (HPLC-ELSD) for the simultaneous detection of ten aminoglycoside antibiotics including apramycin, neomycin, amikacin, and gentamicin. The Simultaneous determination of aminoglycoside antibiotics ... A multiresidue method was developed for determination of nine aminoglycoside antibiotics (streptomycin, dihydrostreptomycin, spectinomycin, neomycin, kanamycin, gentamicin, destomycin A, apramycin, and tobramycin) in milk by LC/MS/MS. The drugs were extracted with 0.01 mol/L potassium dihydrogen phosphate [Simultaneous Determination of Aminoglycoside Antibiotics ... A simple and reliable method was successfully developed for the simultaneous determination of ten aminoglycosides via HPLC-ELSD. Compared with the reported method of aminoglycoside analyses, the proposed method could simultaneously determine multi-aminoglycoside drugs and was further successfully applied to analyze eight aminoglycoside antibiotics in various animal feed samples. Simultaneous determination of aminoglycoside antibiotics ... An analytical method was developed for the simultaneous determination of 11 aminoglycoside (AG) antibiotics, including amikacin, paromomycin, dihydrostreptomycin, gentamicin C1a, hygromycin, kanamycin, netilmicin, spectinomycin, sisomicin, streptomycin, and tobramycin in honey, milk,

and pork samples by LC with tandem MS and molecularly imprinted polymer (MIP) SPE. Simultaneous Determination of 11 Aminoglycoside Residues ... A multiresidue method was developed for determination of nine aminoglycoside antibiotics (streptomycin, dihydrostreptomycin, spectinomycin, neomycin, kanamycin, gentamicin, destomycin A, apramycin, and tobramycin) in milk by LC/MS/MS. The drugs were extracted with 0.01 mol/L potassium dihydrogen phosphate containing 2% trichloroacetic acid, and the extracted solution was cleaned on cation ... [Simultaneous determination of aminoglycoside antibiotics ... Simultaneous Determination of Aminoglycoside Antibiotics in Milk by Liquid Chromatography with Tandem Mass Spectrometry. A multiresidue method was developed for determination of nine aminoglycoside antibiotics (streptomycin, dihydrostreptomycin, spectinomycin, neomycin, kanamycin, gentamicin, destomycin A, apramycin, and tobramycin) in milk by LC/MS/MS. Simultaneous Determination of Aminoglycoside Antibiotics ... A simple and sensitive method has been established based on pass-through cleanup and high-performance liquid chromatography quadrupole-orbitrap mass spectrometry (HPLC-Q/Orbitrap MS) for the simultaneous determination of ten aminoglycosides (AGs) in aquatic feeds. Simultaneous determination of ten aminoglycoside ... A TLC-densitometric method has been developed for simultaneous identification and quantitative determination of amikacin, gentamicin, kanamycin, neomycin, netilmicin, and tobramycin. This separation of antibiotics was achieved on silicagel TLC plates without a fluorescent indicator and with methanol-25% ammonia-chloroform (3 + 2

+ 1, v/v/v) as the mobile phase. Simultaneous identification and quantitative determination ... A confirmatory and quantitative method based on liquid chromatography-electrospray ionization tandem mass spectrometry (LC-ESI-MS/MS) has been developed for simultaneous determination of 13 aminoglycoside antibiotics in various samples. The aminoglycoside analytes were released and extracted from different matrices with 5% trichloroacetic acid. Simultaneous determination of 13 aminoglycoside residues ... Therefore the aim of this work has been the development and validation of a quantitative multiclass method for the simultaneous determination of twelve aminoglycosides (amikacin, apramycin, dihydrostreptomycin, gentamycin C1, gentamycin C1a, gentamycin C2 + C2a, kanamycin A, neomycin B, paromomycin, spectinomycin and streptomycin) and two colistins (A and B) in meat and bovine milk. Simultaneous determination of aminoglycosides and ... Simultaneous Determination of Aminoglycoside Antibiotics in Meat using Liquid Chromatography Tandem Mass Spectrometry¹²⁵. propylene glycol. ... Simultaneous Determination of Aminoglycoside Antibiotics ... Simultaneous Identification and Quantitative Determination of Selected Aminoglycoside Antibiotics by Thin-Layer Chromatography and Densitometry July 2009 Journal of AOAC International 92(4):1068-75 Simultaneous Identification and Quantitative Determination ... Simultaneous determination of ten aminoglycoside antibiotics in aquatic feeds by high-performance liquid chromatography quadrupole-orbitrap mass spectrometry with pass-through cleanup. Xiaoyi Lou. Laboratory of Quality Safety and Processing for Aquatic

Product, East China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, Shanghai, China. Simultaneous determination of ten aminoglycoside ... Aminoglycosides are a class of antibiotics used mainly in the treatment of aerobic gram-negative bacilli infections, although they are also effective against other bacteria including Staphylococci and Mycobacterium tuberculosis. They are often used in combination with other antibiotics. List of Aminoglycosides - Drugs.com Wen-Chu Yang, Ai-Min Yu, Hong-Yuan Chen, Applications of a copper microparticle-modified carbon fiber microdisk array electrode for the simultaneous determination of aminoglycoside antibiotics by capillary electrophoresis, Journal of Chromatography A, 10.1016/S0021-9673(00)00985-7, 905, 1-2, (309-318), (2001). Evaluation of copper-based electrodes for the analysis of ... A confirmatory and quantitative method based on liquid chromatography-electrospray ionization tandem mass spectrometry (LC-ESI-MS/MS) has been developed for simultaneous determination of 13 aminoglycoside antibiotics in various samples. The aminoglycoside analytes were released and extracted from different matrices with 5% trichloroacetic acid. Simultaneous determination of 13 aminoglycoside residues ... A sensitive kinetic-spectrophotometric method for the simultaneous determination of antibiotics in a mixture, specifically of amikacin (AMK), gentamicin (GTM) and etimicin (ETM), has been researched and developed with the use of reaction kinetics. 1,2-naphthoquinone-4-sulphonate (NQS) was used as the derivative reagent to produce colored products in a medium of pH 9.02, and their spectra were collected in order to monitor the kinetics of the reaction (at 475

nm). Simultaneous Assay for Ternary Mixtures of Antibiotics by ... Abstract. A rapid and simple method has been developed for simultaneous determinations of the concentrations of nine aminoglycosides (AGs) in livestock and fishery products using phenylboronic acid (PBA) solid-phase extraction (SPE) clean-up. Unlike the widely employed SPE approaches, based on cation-exchange, PBA SPE relies on the reversible formation of covalent bonds with the analytes.

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