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FEATURES OF THE BIOMECHANISM OF THE DRUG LEVOMYCETIN (CHLORAMPHENICOL)

Axmedov Shamshod Jamshidovich
Faculty of Medicine, International University of Asia, Uzbekistan

Abstract: Currently, the problem of negative influence of residual amounts of antibiotics found in food products in quantities exceeding permissible levels have an impact on human health. Chloramphenicol (chloramphenicol) was chosen as the object of research - broad-spectrum antibiotic often used in agriculture. IN Unlike many drugs, chloramphenicol is slowly eliminated from the body animals, retains its activity for a relatively long time during storage of products and has a negative effect on the hematopoietic system. Hygienic requirements for quality and safety of food raw materials and food products are not allowed the presence of chloramphenicol in meat, milk and eggs.

Keywords: influence, chloramphenicol, metabolism, food products, hydrolysis, blood, urine, hybridomas.

Testing of the culture liquid of the clones was carried out indirectly ELISA. The following antigens were used to sensitize the wells of the plate: conjugates of chloramphenicol with protein carriers (HAF-BSA, XAF-OVA) and pure carrier preparations (BSA, OVA). Testing showed the presence of culture fluid of 3 hybridomas (2D9, 3B11, 4B8) epitope-specific antibodies chloramphenicol. Stability and specificity were retained upon repeated testing hybridoma antibodies 3B11. Upon further testing of antibodies, they were found high activity towards chloramphenicol as part of a protein conjugate and lack of reaction with carrier proteins. The invention relates to analytical chemistry and can be used to determine antibiotics in biosystems (blood, urine, etc.) in pharmacokinetic studies, in toxicological and technical analysis of drugs, in animal feed, and can also serve as the basis for creating a diagnostic system for antibiotic metabolism . The technical result of the invention is to increase the speed, sensitivity and selectivity of the determination of chloramphenicol in food products. The essence of the invention: chloramphenicol is transferred from a sample into a solution, acid hydrolysis is carried out and protein is precipitated from the hydrolyzate, followed by voltammetric determination of chloramphenicol in a protein-free hydrolyzate by recording the cathode peaks of the antibiotic on an indicator mercury film or glassy carbon electrodes in the differential mode of recording voltammograms at appropriate potentials -(0 .67 ± 0.05) V and -(0.60 ± 0.03) V relative to a saturated silver chloride electrode on backgrounds of 0.1 mol/dm3 C6H14O7N2 (pH 4.7 - 5.1) or 0.1 mol/ dm3 (NH4)2 SO4 with the addition of HCl to pH 5.1 at a potential sweep rate of 10 - 25 mV/s.

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