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Objectives of the Study. The goal of this study was two-fold. First, to develop a simple LC/ MS/MS method, including sample preparation using HybridSPEPhospholipid plates, for the direct analysis of the steroid hormones progesterone, aldosterone, corticosterone, deoxycorticosterone, testosterone, and 17 α -methyltestosterone from blood plasma.

A steroid is a biologically active organic compound with four rings arranged in a specific molecular configuration. Steroids have two principal biological functions: as important components of cell membranes which alter membrane fluidity; and as signaling molecules. Hundreds of steroids are found in plants, animals and fungi. All steroids are manufactured in cells from the sterols lanosterol ...

HPLC separation of the steroid hormones was achieved in 35 min, as well as those of the antibiotics. The analytes were extracted by solid-phase extraction, followed by clean-up using size exclusion chromatography (SEC). For the final quantification HPLC/MS/MS was used.

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Abstract. Steroid hormones originate in man from the C 27 steroid, cholesterol. In the steroidogenic tissues (adrenal cortex, gonads, placenta, etc.), the cholesterol side chain is removed and C 21 progestagens, C 21 corticosteroids, C 19 androgens and C 18 oestrogens are successively formed. The active steroid hormones are secreted into the blood and are carried to their site or sites of ...

Detection and analysis of 17 steroid hormones by ultra ...

1 INTRODUCTION. Steroid hormones are produced naturally in the human body and have significant impacts on several biological processes including growth, development, and reproduction (Edwards, 2005). Sex steroid hormones are typically synthesized in the gonads and are subsequently released into the bloodstream to exert their effects by binding to specific intracellular receptors.

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Planar Chromatography Of Steroid Hormones

This report describes the separation and purification of various steroids using partition chromatography on celite microcolumns. The mobile phase consists of a mixture of ethyl acetate in isooctane with increasing polarity. The stationary phases for three systems are described, using propylene glycol, ethylene glycol, and water as solvents.

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Planar chromatography of closely related steroids on untreated silyanized silica plates Derivatives of a pharmacophore of the antitumor antibiotic CC-1065 Planar chromatography of isomers using β -cyclodextrin solutions as mobile phases

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A sensitive and accurate method for determination of 17 endogenous and exogenous steroid hormones in Antarctic krill was developed. The method utilized UHPLC-MS in electrospray ionization mode (ESI). Samples were prepared by alkaline hydrolysis; sequential vortex extraction with ethyl acetate, methanol and acetonitrile; followed by a QuEChERS (Quick, Easy, Cheap, Effective, Rugged and Safe ...

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This study uses the procedure of liquid chromatography coupled with tandem mass spectrometry (LC-MS/MS) without derivatization to determine the effects of housing systems on residue levels of 15 steroid hormones in white or brown pigmented eggs produced by four different strains of commercial layers (Hy-Line W-36, Hy-Line Brown, ISA-White, ISA-Brown, Lohnmann Ultra-Lite, Lohnmann-Brown, Hisex White, Hisex Brown) common to the Taiwan consumer market.

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