

About Steroid Hormones

Steroid hormones play important roles in many physiological processes. Deep profiling of steroid hormones could provide valuable insights for research and clinical studies.

Laboratory tests for numerous steroid hormones, such as testosterone, estradiol, and dehydroepiandrosterone sulfate, are offered from many commercial sources. However, these tests focus on individual or limited combinations of hormonal species and do not provide a comprehensive picture of the entire steroid hormone biosynthesis.

Key Advantages - Reproducible Results

- Comprehensive panel covering progestogens, mineralocorticoids, glucocorticoids, androgens, and estrogens
- Fully quantitative LC-MS/MS method with minimum of 6 to 8 calibrators per analyte
- Matching stable isotope labeled internal standards for each analyte
- Calibrator and quality control sample precision (% CV) typically <10%
- Low sample volume requirement

Analytical Method and Instrumentation

- Analysis by LC-MS/MS
- Sciex Exion UHPLC, coupled to a Sciex 5500+ Triple Quadrupole Mass Spectrometer

Measured Lipid Mediators and Metabolites

Progestogens	
progesterone	17 α -hydroxyprogesterone
pregnenolone sulfate	
Mineralocorticoids	
aldosterone	deoxycorticosterone
corticosterone	18-hydroxycorticosterone
Glucocorticoids	
cortisol	cortisone
11-deoxycortisol	
Androgens	
testosterone	androstenedione
dehydroepiandrosterone sulfate (DHEAS)	
11-ketotestosterone	
11 β -hydroxyandrostenedione	
Estrogens	
estradiol	estrone
estrone sulfate	

Sample Requirements

Sample Matrix	Sample Amount
Plasma/Serum	200 μ L

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