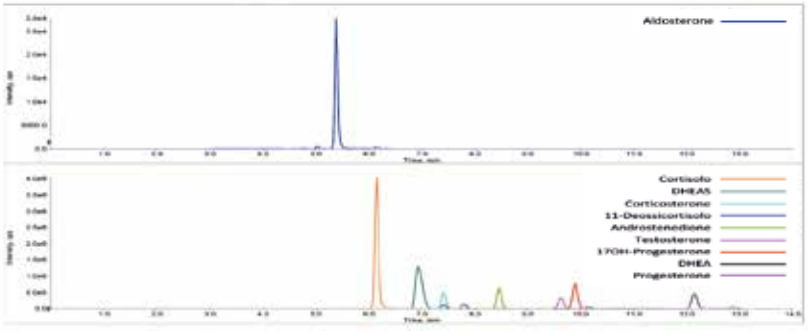
FloMass® Steroids in Serum

Steroid hormones are lipids and originate from a common precursor: cholesterol. Transformation of cholesterol to steroid hormones has an extreme physiological importance. Steroid hormones are involved in metabolism, growth and reproduction. They are in the circulatory flow, transported by specific proteins named carriers, allowing the hormone to reach its target. Spontaneous or inherited genetic mutations that may affect the synthesis of these enzymes are responsible of the alteration of normal levels of steroid hormones. Disorders of organs involved in steroids production and regulation can also bring to a steroid pathological level. It is useful to determinate steroid hormones profile rather than individual steroid analyte.



HPLC-MS/MS system conditions

Ionization: ESI/APCI positive mode, except Aldosterone analysed in negative mode
MS/MS: specific MRM
Injection volume: 20 µl
Running time: 15 min
Column heater: 45°C

Performance

Analyte	Linearity (ng/mL)	LLOD (ng/mL)	LLOQ (ng/mL)	CV% Intra	CV% Inter
Aldosterone	0.022 - 37	0.007	0.022	1.0 - 6.5	0.6 - 10.1
Androstenedione	0.005 - 53	0.001	0.005	1.3 - 2.4	0.8 - 9.3
Corticosterone	0.024 - 225	0.007	0.024	0.3 - 4.4	5.7 - 13.3
Cortisol	1.401 - 6500	0.420	1.401	0.2 - 3.5	0.3 - 5.5
11-Deoxycortisol	0.009 - 56	0.003	0.009	1.2 - 6.6	10.3 - 16.5
DHEA (derivatized)	0.018 - 216	0.006	0.018	0.1 - 5.0	5.8 - 7.8
Progesterone	0.010 - 64	0.003	0.010	1.0 - 7.7	4.2 - 16.8
17-OH-Progesterone	0.027 - 228	0.008	0.027	0.9 - 4.3	4.0 - 9.1
DHEAS	1.554 - 2161	0.466	1.554	0.4 - 4.8	8.0 - 11.5
Testosterone	0.005 - 53	0.001	0.005	0.1 - 3.1	10.3 - 16.9

ORDERING GUIDE

Order No.	Description	Quantity
EUM01100	**FloMass® Steroids in Serum** (Aldosterone, Androstenedione, Corticosteron, Cortisol, 11-Deoxyicortisol, Dehydroepiandrosterone, Progesterone, 17-OH-Progesterone, Dehydroepiandrosterone sulphate, Testosterone) LC-MS/MS detection	**100 assays**
	Contents	
	Mobile Phase A	1 x EUM01011
	Mobile Phase B	1 x EUM01012
	Precipitant Solution	1 x EUM01021
	Internal Standard Mix	1 x EUM01031
	Separately available components	
EUM01011	Mobile Phase A	800 ml
EUM01012	Mobile Phase B	500 ml
EUM01021	Precipitant Solution	70 ml
EUM01031	Internal Standard Mix	1.1 ml
	Accessory	
EUM00C01	Analytical Column with test chromatogram	1 pc
EUM00A12	Precolumns	4 pcs
EUM00A13	Holder (incl. 1 precolumn)	1 pc
EUM01022	Derivatizing for DHEA	5 ml
EUM01071	FloTuning Mix A + Mix B Steroids	2x2 ml
EUM01051	Control Set for Steroids in Serum, lyoph. (3 levels)	2x3x2.5 ml
EUM01041	Calibrator Set for Steroids in Serum, lyoph. (7 levels)	2x7x1 ml