



Steroid Profile

Service Code: Steroid sulfate conjugated

Summary: Profile up to 6 sulfate conjugate steroids by LLE of blood plasma, serum, or tissue samples. Target steroid analytes are chromatographically separated on a 2.1mm x50mm Biphenyl column in a 20 min cycle. All analytes and Internal Standards are measured as their oxime derivative by ESI ionization--pos on a UHPLC-QQQ mass spectrometer using MRM methods and reported as total pG/mL (biofluids) or pM (tissues--normalized to wet tissue weight). CV's are generally 10%.

Container: cryovial

Normal Volume: 500 uL

Minimal Volume: 50uL

Special Handling: If human or primate, note any known presence of infectious agents

Sample Collection: : Please see our detailed sample collection protocol on the Michigan Regional Comprehensive Metabolomics Resource Core (MRC²) website before preparing samples for analysis or contact the core director at the number below for details.

Table I: Analytes reported:

Conjugated Steroids Sulfates

Analyte	Abbr.	Molecular Formula	MRM	LOQ pG/ml; pG (OC)
Pregnenolone sulfate	P5-SO4	C21H32O5S	395.2>96.9	20; 0.5
17-hydroxypregnenolone sulfate	17OHP5-SO4	C21H32O6S	411.2>97.0	50; 1.0
Dehydroepiandrosterone-sulfate	DHEAS	C19H28O5S	376.2>97	100; 2.0
Androsterone sulfate	Andros-SO4	C19H30O5S	369.2>97.0	20; 0.5
Etiocholane sulfate	ET SO4	C19H29O5S	369.2>96.9	20; 0.5
Androst-5-ene-diol sulfate	5AD-SO4		369.2>96.9	20;0.5

***Please see our D4 Steroids panel or D5 Steroids panel for other Steroid Analysis Choices**