# Detection of Endogenous Steroids from Serum by UHPLC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

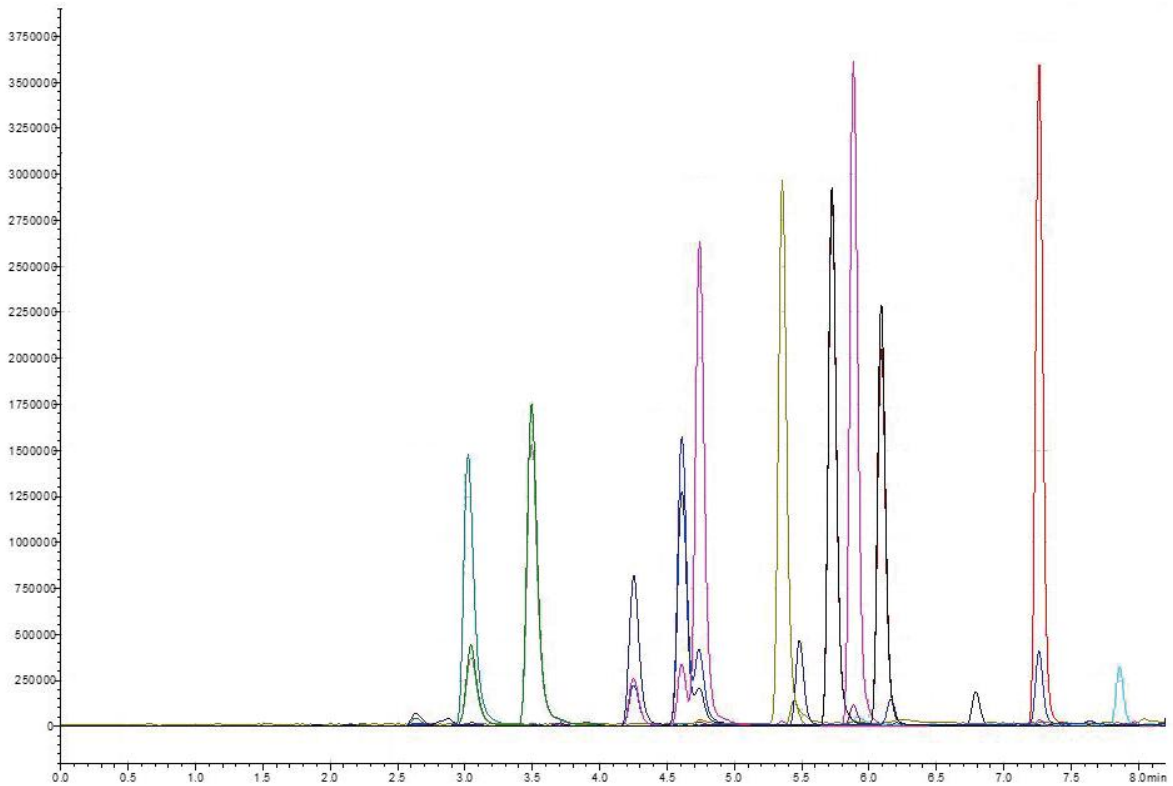


**Conditions**

| | |
|---|---|
| Column: | ACE Excel 1.7 C18 |
| Dimensions: | 100 x 2.1 mm |
| Part Number: | EXL-171-1002U |
| Mobile Phase: | A: 0.2 mM ammonium fluoride in water<br>B: Methanol |

| Time (mins) | %B |
|---|---|
| 0 | 50 |
| 3 | 60 |
| 8 | 90 |
| 9 | 95 |
| 9.1 | 95 |
| 9.5 | 50 |

| | |
|---|---|
| Flow Rate: | 0.4 mL/min |
| Injection Volume: | 10 µL |
| Temperature: | 40 °C |
| Detection: | Shimadzu 8060 Triple Quad MS<br>MRM, positive and negative ESI mode |
| Sample: | Endogenous Steroids extracted from human serum using supported liquid extraction or polymer-based SPE prior to LC/MS-MS |




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| Analyte | Rt (Mins) | MRM Transitions | Ion Mode |
|---|---|---|---|
| Aldosterone-d4 | 2.62 | 363.1 → 190.3 | - |
| Aldosterone | 2.65 | 359.1 → 189.3 | - |
| Cortisone | 3.03 | 361.3 →163.2 | + |
| 18-OH-Corticosterone | 3.06 | 363.3 → 269.2 | + |
| Cortisol | 3.51 | 363.4 → 121.3 | + |
| DHEAS | 3.76 | 367.1 → 97.1 | - |
| 21-Deoxycortisol | 4.27 | 347.1 → 311.2 | + |
| Corticosterone | 4.63 | 347.3 → 329.3 | + |
| 11-Deoxycortisol | 4.76 | 347.3 → 109.3 | + |
| Androstenedione | 5.38 | 287.3 → 97.2 | + |
| Estradiol | 5.47 | 271.1 →145.2 | - |
| Esterone | 5.51 | 269.2 →145.2 | - |
| 11-Deoxycorticosterone | 5.75 | 331.3 →109.1 | + |
| Testosterone | 5.91 | 289.3 → 97.1 | + |
| 17-OH-Progesterone | 6.11 | 331.3 →97.1 | + |
| 17-OH-Pregnenolone | 6.18 | 315.3 → 297.2 | + |
| DHEA | 6.23 | 289.3 → 253.2 | + |
| DHT-d3 | 6.80 | 294.4 → 258.3 | + |
| DHT | 6.82 | 291.3 → 255.3 | + |
| Progesterone | 7.29 | 315.2 → 97.2 | + |
| Pregnenolone | 7.89 | 299.3 → 159.3 | + |

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