

APPLICATION

LC/MS/MS Analysis of a Steroid Panel using Kinetex® EVO C18 Core-Shell HPLC/UHPLC Columns

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Overview

This application note describes the separation and LC/MS/MS analysis of a 12 steroid panel. The steroid panel was analyzed in a single LC/MS/MS application however they can also be analyzed in three separate panels as shown in the representative chromatograms.

LC/MS/MS Conditions

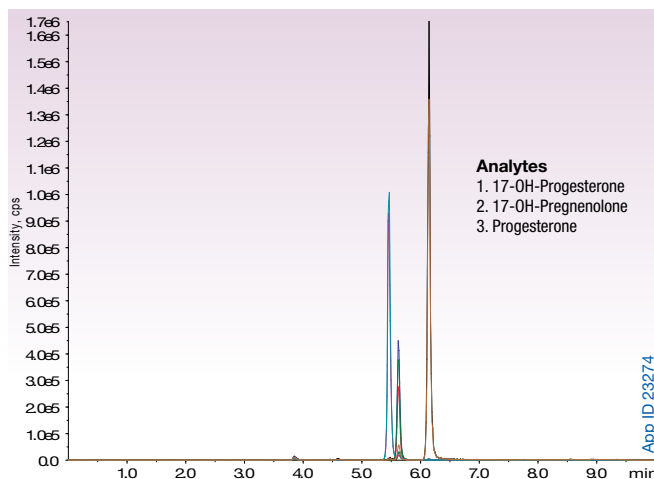
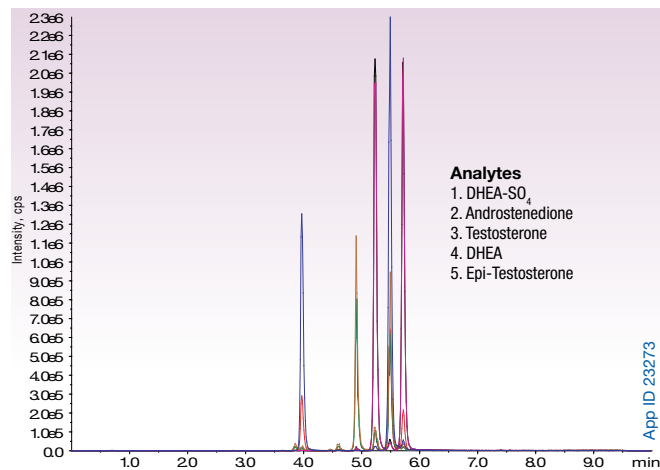
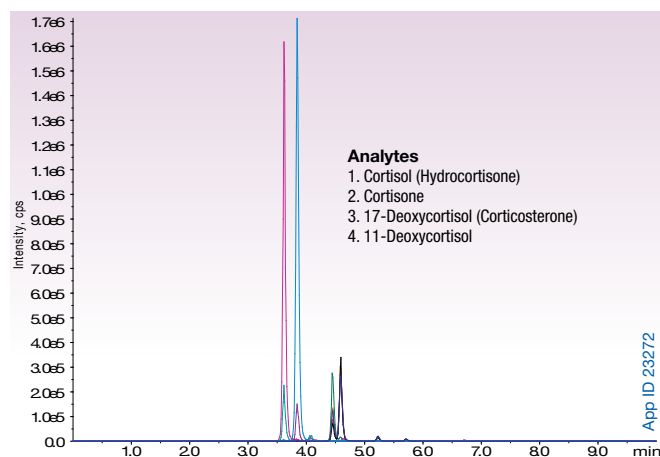
Column: Kinetex 5 µm EVO C18
Dimensions: 100 x 2.1 mm
Part No.: 00D-4633-AN
Mobile Phase: A: 5 mM Ammonium Formate in Water
 B: 100 % Methanol
Gradient:

Time (min)	% B
0.00	30
8.00	95
8.50	95
8.51	30
10.00	30

Flow Rate: 600 µL/min
Temperature: 22 °C
Detection: MRM, API 5000™ (SCIEX), APCI+

Representative Chromatograms of Steroids

Three separate chromatograms are depicted to better show the separation between the 12 steroids however they were run together in a single LC/MS/MS run



APPLICATION

Ordering Information Kinetex® Core-Shell HPLC/UHPLC Columns

5 µm Minibore Columns (mm)

Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
EVO C18	00A-4633-AN	00B-4633-AN	00D-4633-AN	00F-4633-AN	AJO-9298 for 2.1 mm ID

SecurityGuard™
ULTRA Cartridges†

5 µm MidBore™ Columns (mm)

Phases	50 x 3.0	100 x 3.0	150 x 3.0	3/pk
EVO C18	00B-4633-Y0	00D-4633-Y0	00F-4633-Y0	AJO-9297 for 3.0 mm ID

SecurityGuard
ULTRA Cartridges†

5 µm Analytical Columns (mm)

Phases	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
EVO C18	00B-4633-E0	00D-4633-E0	00F-4633-E0	00G-4633-E0	AJO-9296 for 4.6 mm ID

SecurityGuard
ULTRA Cartridges†

2.6 µm Minibore Columns (mm)

Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
EVO C18	00A-4725-AN	00B-4725-AN	00D-4725-AN	00F-4725-AN	AJO-9298 for 2.1 mm ID

SecurityGuard
ULTRA Cartridges†

2.6 µm MidBore Columns (mm)

Phases	50 x 3.0	100 x 3.0	150 x 3.0	3/pk
EVO C18	00B-4725-Y0	00D-4725-Y0	00F-4725-Y0	AJO-9297 for 3.0 mm ID

SecurityGuard
ULTRA Cartridges†

2.6 µm Analytical Columns (mm)

Phases	50 x 4.6	100 x 4.6	150 x 4.6	3/pk
EVO C18	00B-4725-E0	00D-4725-E0	00F-4725-E0	AJO-9296 for 4.6 mm ID

SecurityGuard
ULTRA Cartridges†

1.7 µm Minibore Columns (mm)

Phases	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
EVO C18	00B-4726-AN	00D-4726-AN	00F-4726-AN	AJO-9298 for 2.1 mm ID

SecurityGuard
ULTRA Cartridges†

† SecurityGuard ULTRA Cartridges require holder, Part No.: AJO-9000

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