

Automated Extraction of Prednisolone & Cortisone from Plasma Using Novum SLE & Kinetex 2.6u Biphenyl

Column: Kinetex® 2.6 µm Biphenyl 100 Å, LC Column 50 x 3.0 mm, Ea

Dimensions: 50 x 3 mm ID

Order No: 00B-4622-Y0

Elution Type: Gradient

Eluent A: 10 mm ammonium acetate in water

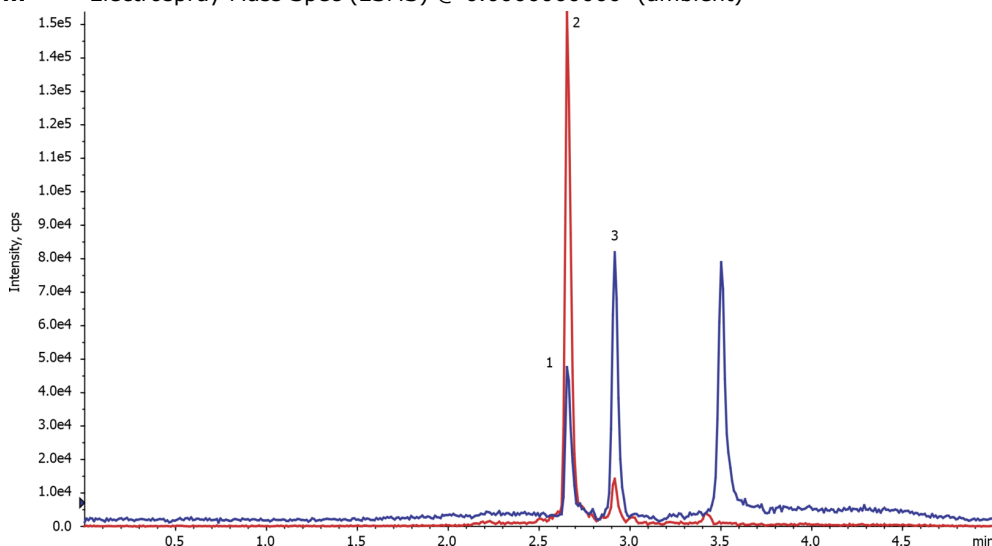
Eluent B: 10 mm ammonium acetate in methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	50	50
	2	2	5	95
	3	3.1	5	95
	4	3.11	50	50
	5	5	50	50

Flow Rate: 0.45 mL/min

Col. Temp.: 25 °C

Detection: Electrospray Mass Spec (ESMS) @ 0.0000000000 (ambient)



ANALYTES:

1 Cortisone

Retention Time: 2.66 min

2 Cortisol-D4 (Internal standard)

Retention Time: 2.69 min

3 Prednisolone

Retention Time: 2.92 min



Products used in this application:



Sample Preparation Details

for HPLC Application ID No.: 22785

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PRODUCT DESCRIPTION:

Novum SLE MINI 96-Well Plate, 1/Pk

Order No.: 8E-S138-FGA

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 200 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

Elute:

Final Prep and Analysis:

Sample pre-treatment

Dilute 150 uL of human plasma (spiked with 25 ng/mL and 125 ng/mL of cortisone and

Inject: 0 µL on HPLC Electrospray Mass Spec (ESMS) @ 0.0000000000 (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Cortisone	25			99	
2 Cortisol-D4 (Internal standard)	50				
3 Prednisolone	125			95	

Note: This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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