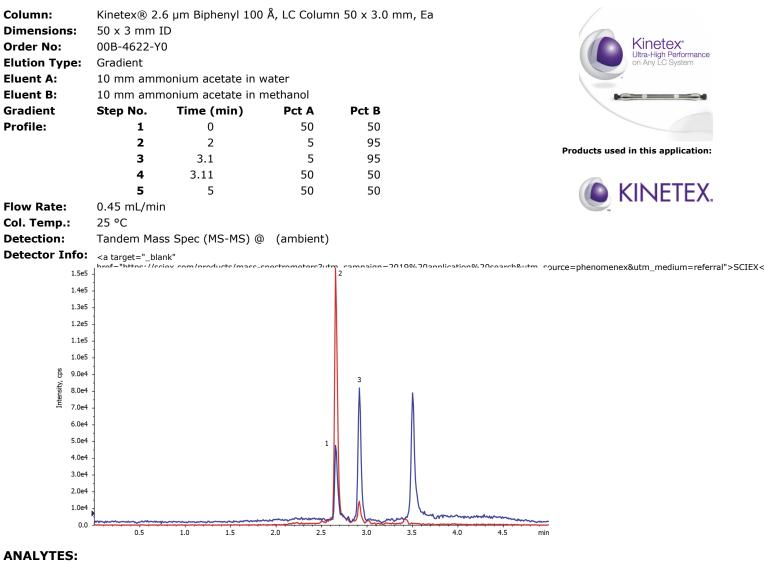
HPLC Application

ID No.: 22785

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



1 Cortisone

Retention Time: 2.66 min

2 Cortisol-D4 (Internal standard) Retention Time: 2.69 min

Prednisolone 3

Retention Time: 2.92 min

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henomenex

for HPLC Application ID No.: 22785



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

PRODUCT DESCRIPTION:

Novum SLE MINI 96-Well Plate, 1/Pk

Order No.: 8E-S138-FGA

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

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:

Sample pre-treatment:

Dilute 150 uL of human plasma (spiked with 25 ng/mL and 125 ng/mL of cortisone and prednisolone respectively) with 150 uL of 50 mM sodium phosphate dibasic heptahydrate, pH unadjusted. Mix briefly (3-5 sec).

Sample loading:

Load the sample from pre-treatment step above onto the Novum plate and apply a short and gentle pulse of vacuum (~ 10" of Hg for 20 secs) until the sample has completely entered the media.

Wait for 5 minutes

Wash:

Dry:

Elute:

Δ

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: 10 µL on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:		Spiked Conc.	Log P	рКа	% Rec	%RSC
		(ng/mL)				(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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