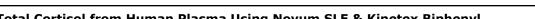
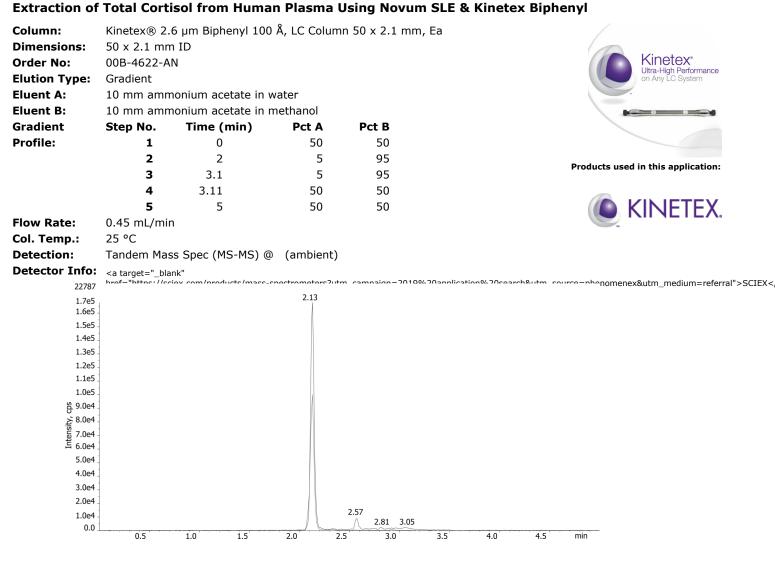
HPLC Application

ID No.: 22787





ANALYTES:

1 Cortisol

Retention Time: 2.13 min

2 Cortisol-D4 (Internal standard) Retention Time: 2.13 min

©2025 Phenomenex Inc. All rights reserved.

Phenomenex products are available worldwide.

www.phenomenex.com.cn

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

ohenomene

for HPLC Application ID No.: 22787



Extraction of Total Cortisol from Human Plasma Using Novum SLE & Kinetex Biphenyl

PRODUCT DESCRIPTION:

Novum SLE MAX 96-Well Plate, 1/Pk

Order No.: 8E-S138-5GA

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 400 mg bed mass.

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

Condition:

Load:

Sample pre-treatment: Dilute 200 uL of human plasma with 200 ul of 50 mM sodium phosphate dibasic heptahydrate, pH unadjusted. Vortex briefly (3-5 sec). Sample loading: Load the sample from pretreatment step abive onto the Novum plate and apply a short and gentle pulse of vacuum (\sim 5" of Hg for 5-10 sec) or until the sample has completely entered the media. Wait for 5 minutes.

Wash:

Dry:

Elute:

Final Prep and Analysis:

Extraction Procedure

Sample pre-treatment: Dilute 200 uL of human plasma with 200 ul of 50 mM sodium phosphate Inject: 10 μ L on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	рКа	% Rec	%RSC (n=0)
1 Cortisol	25			79	
2 Cortisol-D4 (Internal standard)	50				

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.

Ph

Phenomenex products are available worldwide.

www.phenomenex.com.cn

©2025 Phenomenex Inc. All rights reserved.

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