

Nota de aplicación

Fast and Simple Bioanalytical Plasma Sample Extraction Using Oasis HLB SPE for High Analyte Recovery

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Este es un resumen de la aplicación y no contiene una sección experimental detallada.

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Abstract

This application note describes the fast and simple bioanalytical plasma sample extraction using Oasis HLB solid phase extraction, requiring no protocol method development, for high extraction recovery of several small molecule pharmaceuticals.

Experimental

SAMPLE PREPARATION AND EXTRACTION

**Oasis HLB SPE Protocol
(96-well Plate, 10 mg Sorbent per Well, p/n 186000128)**

Sample pretreatment: 500 µL 4% H ₃ PO ₄ to 500 µL plasma sample	
Load: 1000 µL pre-treated sample	
Wash: 500 µL Water	
Elute: 2 × 125 µL Methanol	

Sample Preparation & Extraction.

LC-MS Analysis

UPLC	I-Class, FTN with Column Manager (CMA)
MPA	0.1% FA in water
MPB	0.1% FA in ACN
Column/sorbents	HSS PFP 1.8 µm, 2.1 mm x 50 mm p/n 186005965
Col. temp.	35 °C
Sample temp.	10 °C
Inj. vol.	5 µL
WNW	90:10 Water:ACN
SNW	25:25:25 Water:MeOH:ACN:IPA
MS	Xevo® TQ-Smicro
Capillary (kV)	3.0
Cone voltage	30 V
Desolvation temp.	500 °C
Desolvation flow	1100 L/Hr
Cone gas flow	150 L/Hr

UPLC Gradient Table

Time (min)	Flow (mL/min)	% MPA	% MPB
0.0	0.5	100.0	0.0
5.0	0.5	5.0	95.0
6.0	0.5	5.0	95.0
6.1	0.5	100.0	0.0
7.0	0.5	100.0	0.0

Results and Discussion

High Analyte Recovery from Plasma using Oasis HLB SPE

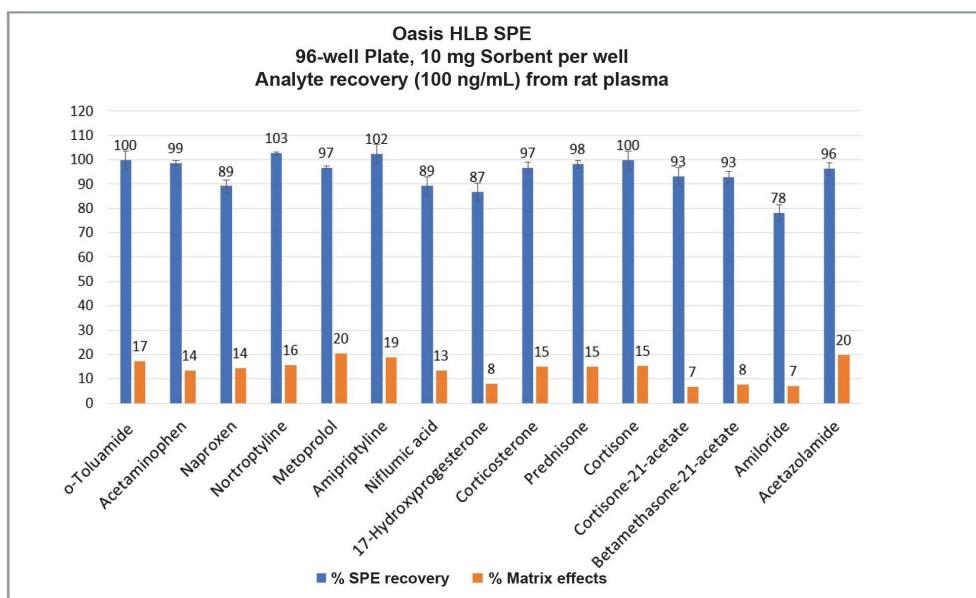


Figure 1. Demonstration of Oasis HLB SPE Performance requiring no protocol optimization, with >78% recovery and matrix effects <20% from plasma.

Ordering Information

Description	P/N
Oasis HLB 96-well Plate, 10 mg Sorbent per Well, 30 µm	186000128
96-well Sample Collection Plate, 2 mL square well	186002482
Polypropylene Cap Mat Square Well for 96 well	186002484
ACQUITY UPLC HSS PFP Column, 100 Å, 1.8 µm, 2.1 mm × 50 mm	186005965

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