

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

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Abstract

This application describes a fast and simple method for bioanalytical sample preparation from plasma. Utilizing Oasis PRiME HLB solid-phase extraction (SPE), the protocol requires no method development and achieves high recovery and low matrix effects for several small molecule pharmaceuticals.

Experimental

Oasis PRiME HLB SPE Protocol
96-well plate, 3 mg sorbent per well,
P/N 186008052



Sample pretreatment:

200 μ L 4% H_3PO_4 to 200 μ L
plasma sample

Load:

400 μ L pre-treated sample

Wash:

200 μ L 95:5 Water: Methanol

Elute:

2x 25 μ L 90:10
Acetonitrile/Methanol

Dilute:

50 μ L H_2O

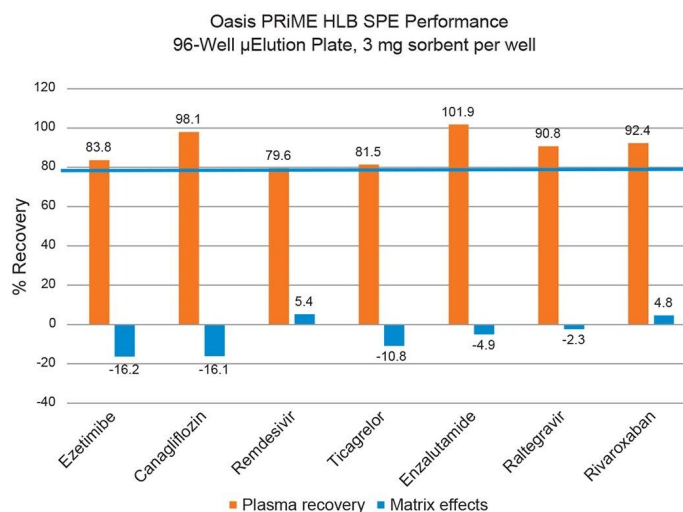


Figure 1. Demonstration of Oasis PRiME HLB SPE bioanalytical performance, requiring no optimization of the starting protocol, with high recovery (> 79%) and low matrix effects (-16.2 to 5.4%) for several pharmaceuticals extracted from plasma.

Results and Discussion

High Analyte Recovery with low matrix from plasma is achieved Using Oasis PRiME HLB SPE for top-selling small molecule pharmaceuticals in 2023.¹

References

1. Williams, RE and Leatherwood HM [Top 200 Small Molecule Drugs by Retail Sales in 2023](https://bpb-us-e2.wpmucdn.com/sites.arizona.edu/dist/9/130/files/2024/05/2023Top200SmallMoleculePosterV5.pdf) <<https://bpb-us-e2.wpmucdn.com/sites.arizona.edu/dist/9/130/files/2024/05/2023Top200SmallMoleculePosterV5.pdf>> .
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