

APPLICATIONS

A Faster Solid Phase Extraction Method for Pain Relievers from Plasma Using Strata[®]-X PRO

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Overview

While traditional solid phase extraction (SPE) methods usually include five or more steps, implementing Strata-X PRO offers a fast and effective alternative that provides high recoveries and reduces matrix effects. Strata-X PRO uses a 3-step method, eliminating the conditioning and equilibration steps, yet still yields high recovery and removes phospholipids, equivalently to Waters[®] Oasis[®] PRiME HLB SPE. This application displays that for a range of pain relievers, an easy SPE method can be implemented and produce acceptable results.

SPE Protocol

- 96-Well Plates:** Strata-X PRO, 30 mg/well
Waters Oasis PRiME, 30 mg/well
- Part No.:** [8E-S536-TGB](#)
- Load:** 500 μ L Plasma/0.1% Formic acid in Water (1:1)
- Wash:** 1 mL 5% Methanol in Water
- Dry:** 1 minute at 5" Hg
- Elute:** 1 mL 0.1% Formic acid in Acetonitrile/Methanol (90:10)
- Dry Down:** 1 minute at 5" Hg

Figure 1. Recoveries of Analytes From Plasma for Strata-X PRO and Waters Oasis PRiME

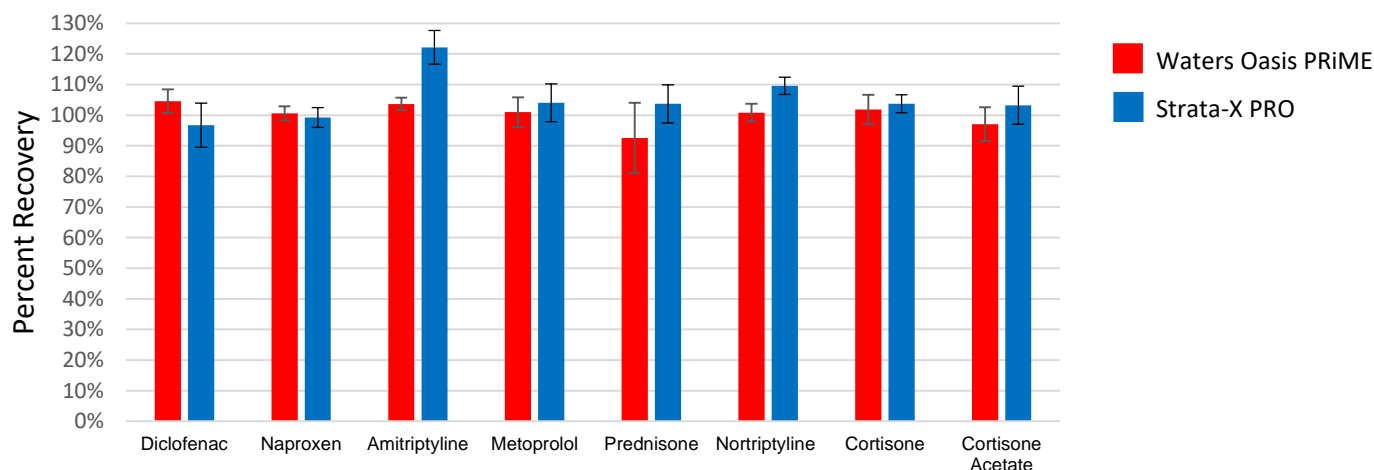
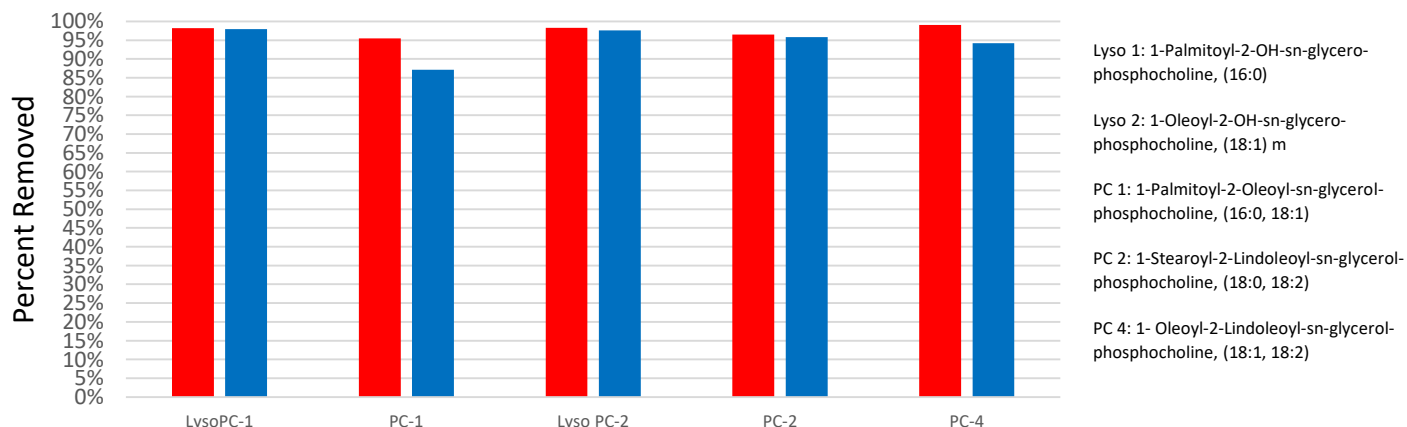



Figure 2. Comparison of Removal of Phospholipids from Plasma



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