

# STRATA-X- Drug B Plus



In-well hydrolysis  
and solid phase  
extraction for  
drugs of abuse

**Q: What is in-well hydrolysis?**

A: When working with urine, a hydrolysis must be performed to cleave the glucuronide bond that is formed during drug metabolism. This hydrolysis is often achieved with a  $\beta$ -Glucuronidase enzyme in a separate test tube or outside of the SPE tube/well. To improve workflow productivity, performing a hydrolysis in-well can be as simple as adding urine and  $\beta$ -Glucuronidase enzyme, then waiting for the incubation time and pulsing the vacuum to initiate the SPE protocol.

**Q: How much organic can I add to the Strata-X-Drug B Plus in-well hydrolysis product?**

A: We recommend adding no more than 10% total volume of organic for the internal standard. Also ensuring that the internal standard is added as the last addition to the well guarantees that there is no pre-maturing leaking into the sorbent.

**Q: How long can the aqueous solution be held in the well before leaking?**

A: We tested for 6 hours with no signs of leaking before initiating our SPE protocol and we believe it may be held for longer but have not tested the effects of this.

**Q: How do I initiate the SPE loading step?**

A: Proceed to pulse vacuum or start positive pressure manifold to load solution onto SPE sorbent. Make sure solution is between a pH of 4-6 before initiating load, and then proceed with SPE protocol.

**Q: Where can I find starting pre-treatment and methods for my analytes?**

A: The user guide for Strata-X-Drug B Plus can be found at [www.phenomenex.com/StrataXDrug](http://www.phenomenex.com/StrataXDrug).