Get the FACTS

Say GOODBYE to FALSE NEGATIVES with

IMCSzyme®RT

genetically modified β-glucuronidase

- 15-minute room temperature urine hydrolysis¹⁻⁷
- **Eight to ten times** more resistant to naturally-occurring inhibitors in human urine²
- Verified with real pain care samples and not spiked, synthetic urine¹⁻⁷
- Patient-specific urine properties negatively impact β-glucuronidase enzymes to varying levels, lowering analyte recoveries. 1,2,4,7

Registered to ISO 9001

Imcszym

- Zero false negatives vs. the competition's 33 false negatives^{1,2,4}
- Ten-fold less enzyme required to complete hydrolysis⁵
- Master mix prepared with IMCSzyme® RT is stable for one month at room temperature during work hours and stored at 4 °C at the end of the shift.6
- More resistant to pH extremes in urine samples than other β-glucuronidase enzymes¹

LEARN MORE AT

www.imcstips.com/IMCSzyme-RT

- Lee LA, McGee AC, Sitasuwan P, Tomashek JJ, Riley C, Muñoz-Muñoz AC, Andrade L. (2021). Factors
 Compromising Glucuronidase Performance in Urine Drug Testing Potentially Resulting in False Negatives.
 Journal of Analytical Toxicology, DOI: 10.1093/jat/bkab090.
- 2. McGee AC, Sitasuwan PN, Tomashek JJ, Munoz-Munoz AC, Andrade L, Lee LA. (2021). Overcoming Heterogeneity in Urine Specimens: Avoiding False Negatives caused by Endogenous Inhibitors. Annual Meeting, Society of Forensic Toxicologists, Nashville, TN. September 26 October 1, 2021.
- 3. Grenier AC. (2020). Comparing Glucuronidase Hydrolysis Efficiencies in Patient Urine Samples. SOFTember Virtual Program, Society of Forensic Toxicologists, [Online]. September 9-30, 2020.
- 4. McGee AC, Sitasuwan PN, Tomashek JJ, Schlachter CR, Grenier AC, Andrade L, Lee LA. (2020). Urine Variability Compromises β-Glucuronidase Performance Causing Inaccurate Drug Quantitation. SOFTember Virtual Program, *Society of Forensic Toxicologists*, [Online]. September 9-30, 2020.
- 5. Sasaki TA. (2019). Simplifying Urine Drug Testing with "Flash Hydrolysis" Using New Recombinant β-Glucuronidase Enzymes. Annual Meeting, Society of Forensic Toxicologists, San Antonio, TX. October 13-18 2019.
- 6. IMCSzyme RT Master Mix Stability. (2021). [Online]. Accessed March 29, 2022.
- 7. Abddelgader A, Karamooz S, Nguyen N. (2022). Evaluation of new beta-glucuronidase for urine drug testing. 12th Annual Conference and Exhibits, *The Association for Mass Spectrometry & Advances in the Clinical Lab*, Monterey, CA. April 5-8 2022.