

## TIPNOVUSMINI VALIDATION: TOXICOLOGY & FORENSIC

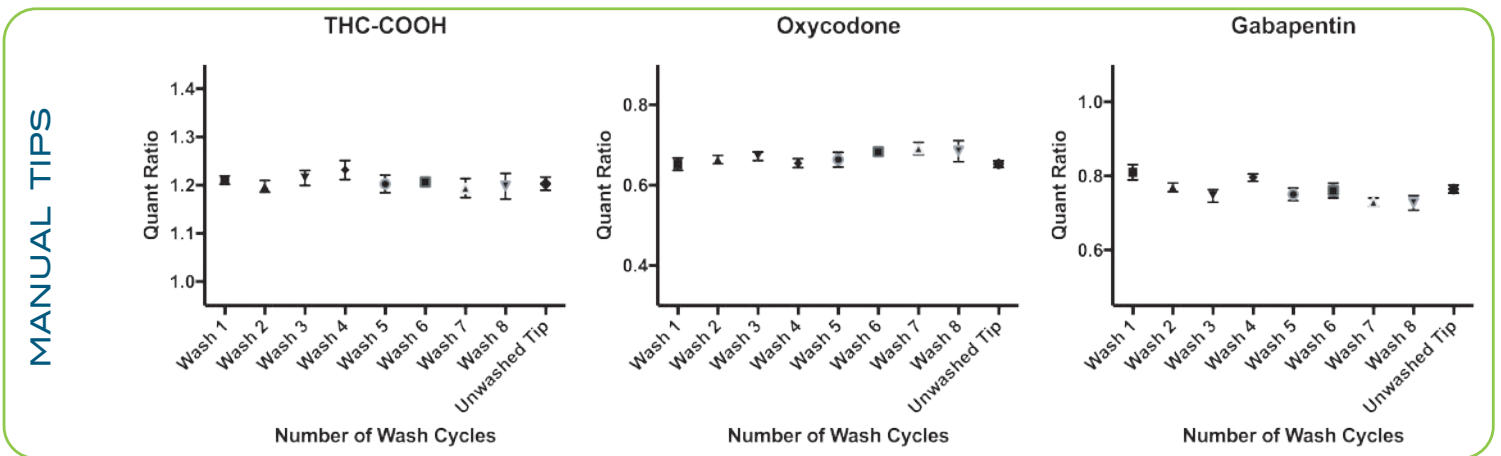
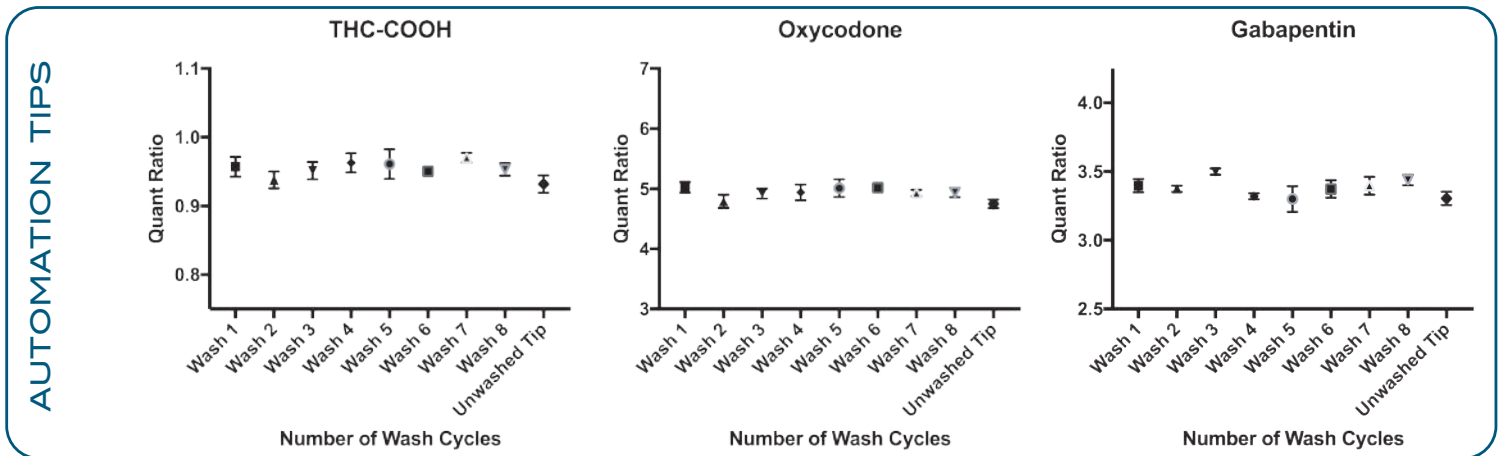
### TIPNOVUS *mini*

#### RESIDUAL SAMPLE CARRYOVER STUDY

To determine if the TipNovusMini could be useful in a clinical or forensic toxicology laboratory to help cut down on tip cost and waste.

#### PROCEDURE - MANUAL & AUTOMATION PIPETTE TIPS

Precision and carryover of washed tips versus unwashed tips were assessed to determine if the TipNovusMini could be used in the Forensic Toxicology and Trace Laboratory. Tips were used to process 50 microliters (50 ul) of urine that was fortified with high concentrations (10 ug/mL) of analytes that might be present in forensic and clinical specimens, including opiates (hydrocodone, hydromorphone, norhydrocodone, noroxycodone, oxycodone, oxymorphone), benzodiazepines (nordiazepam, oxazepam, temazepam) and cannabinoids (THC-COOH), and other analytes (amphetamine, gabapentin, tramadol)..



#### TIPNOVUSMINI TOXICOLOGY VALIDATION CONCLUSIONS

No significant differences ( $p < 0.05$ ) were detected in results obtained with washed tips versus unwashed tips ( $N=6$ ), demonstrating similar values and precisions for both types of tips. There were no data trends indicating carryover of any of the classes of analytes. The TipNovusMini demonstrated potential utility in reducing lab waste and cost, without degrading performance.

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