

Supplementary Materials

Target, suspect and non-target screening of silylated derivatives of polar compounds based on single ion monitoring GC-MS

Chlorobenzoic acid



Figure S1. Spectrum of derivatized chlorobenzoic acid. Obtained by injecting 2 µL of standard solution into GC-MS after derivatization.

Cinnamic acid



Figure S2. Spectrum of derivatized cinnamic acid. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization.

4-Phenoxyphenol was used as an internal standard.





Figure S3. Spectrum of derivatized 4-phenoxyphenol. Obtained by injecting 2 µL of standard solution into GC-MS after derivatization.

Acetylsalicylic acid (aspirin)



Figure S4. Spectrum of derivatized acetylsalicylic acid. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization.

Ibuprofen



Figure S5. Spectrum of derivatized ibuprofen. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization.

Phenacetin



Figure S6. Spectrum of phenacetin. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silvl group indicated that this compound was not be derivatized.

Acetaminophen



Figure S7. Spectrum of derivatized acetaminophen. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization.

Naproxen



Figure S8. Spectrum of derivatized acetaminophen. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization.

Caffeine



Figure S9. Spectrum of caffeine. Obtained by injecting 2 µL of standard solution into GC-MS after derivatization. The lack of the silvl group indicated that this compound was not be derivatized.

Carbamazepine



Figure S10: Spectrum of derivatized carbamazepine. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silyl group indicated that this compound was not be derivatized.





Figure S11. Spectrum of derivatized clozapine. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silyl group indicated that this compound was not be derivatized.





Figure S12. Spectrum of derivatized chlorpromazine. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silyl group indicated that this compound was not be derivatized.

Sulfamethoxazole



Figure S13. Spectrum of sulfamethoxazole. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silvl group indicated that this compound was not be derivatized.

Sulfamethazine





Chloramphenicol



Figure S15. Spectrum of derivatized chloramphenicol. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization.

Cocaine



Figure S16. Spectrum of cocaine. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silyl group indicated that this compound was not be derivatized.

Methamphetamine



Figure S17. Spectrum of methamphetamine. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silvl group indicated that this compound was not be derivatized.

Morphine



Figure S18. Spectrum of morphine. Obtained by injecting 2 μ L of standard solution into GC-MS after derivatization. The lack of the silyl group indicated that this compound was not be derivatized.