

Supplemental Data Table 1

Accuracy, limit of detection (LOD), limit of quantification (LOQ) from spiked serum material (level 1: 5 $\mu\text{mol/L}$, level 2: 20 $\mu\text{mol/L}$ bile acid)

| Name | Level | Intra-Day | Inter-Day | Recovery | LOQ | LOD |
|------|-------|----------------|-----------|----------|----------|------|
| | | [CV in %] n=10 | | [%] | [nmol/L] | |
| TDC | 1 | 4.5 | 6.4 | 89.7 | 12.0 | 4.0 |
| | 2 | 4.2 | 8.0 | 98.6 | | |
| DC | 1 | 4.1 | 7.6 | 98.9 | 64.0 | 21.3 |
| | 2 | 4.4 | 7.7 | 96.7 | | |
| TC | 1 | 4.6 | 7.5 | 94.2 | 23.0 | 7.7 |
| | 2 | 4.0 | 9.6 | 95.7 | | |
| GCDC | 1 | 3.5 | 7.0 | 104.7 | 31.0 | 10.3 |
| | 2 | 3.1 | 6.6 | 101.4 | | |
| CDC | 1 | 2.3 | 7.0 | 95.2 | 53.0 | 15.3 |
| | 2 | 4.4 | 6.5 | 93.7 | | |
| GDC | 1 | 4.2 | 6.5 | 89.6 | 83.0 | 27.7 |
| | 2 | 3.9 | 8.6 | 97.8 | | |
| TLC | 1 | 4.5 | 8.7 | 94.6 | 11.0 | 3.7 |
| | 2 | 4.6 | 9.8 | 101.4 | | |
| GC | 1 | 4.7 | 5.0 | 97.1 | 22.0 | 5.1 |
| | 2 | 2.8 | 5.2 | 99.7 | | |
| LC | 1 | 5.8 | 8.8 | 73.6 | 27.0 | 5.3 |
| | 2 | 4.7 | 9.9 | 81.2 | | |
| UDC | 1 | 3.3 | 7.9 | 94.4 | 39.0 | 15.2 |
| | 2 | 4.6 | 9.8 | 100.4 | | |

| | | | | | | |
|------|---|-----|-----|-------|------|------|
| TUDC | 1 | 5.6 | 8.4 | 96 | 14.0 | 3.8 |
| | 2 | 3.8 | 9.8 | 98.3 | | |
| TCDC | 1 | 5.3 | 8.6 | 87.7 | 21.0 | 5.0 |
| | 2 | 3.6 | 9.8 | 97.7 | | |
| GUDC | 1 | 7.2 | 8.7 | 94.2 | 18.0 | 3.5 |
| | 2 | 7.5 | 9.0 | 95.7 | | |
| GLC | 1 | 4.6 | 6.8 | 99.3 | 38.0 | 17.1 |
| | 2 | 4.2 | 7.8 | 99.8 | | |
| CA | 1 | 4.2 | 6.2 | 95.7 | 61.0 | 14.9 |
| | 2 | 5.6 | 6.6 | 97.7 | | |
| DHCA | 1 | 7.6 | 7.9 | 95.6 | 17.0 | 5.1 |
| | 2 | 5.1 | 7.6 | 93.8 | | |
| THCA | 1 | 7.3 | 8.7 | 102.2 | 19.0 | 8.5 |
| | 2 | 4.2 | 8.1 | 99.4 | | |