

**Table 1S.** TYr and TYr-Es (T-C14:0, T-C16:0 and T-C18:0) determination of gastrointestinal tract contents with known concentrations of added

TYr or TYr-E by the HPLC-UV method.

Object	Equations	LOD ( $\mu\text{M}$ )	LOQ ( $\mu\text{M}$ )	$C_{(\text{TYr or TYr-E})}$ added ( $\mu\text{M}$ )	$C_{(\text{TYr or TYr-E})}$ founded ( $\mu\text{M}$ )	Accuracy (%)	Intraday coefficient variations (%)	Interday coefficient variations (%)
TYr	$y=1076.07x+23855.22$ ( $R^2=0.9999$ , 16.0-1000.0 $\mu\text{M}$ )	9.0	12.0	50	52.0	104.0	9.4	8.7
				200	193.5	96.8	4.4	7.6
				800	779.3	97.4	6.8	6.9
T- C14:0	$y=1281.88x+32886.23$ ( $R^2=0.9998$ , 312.5-4000.0 $\mu\text{M}$ )	175.0	265.0	400	394.9	98.72	9.2	10.9
				1200	1193.7	99.48	6.5	4.3
				3600	3486.6	96.85	8.8	4.7
T- C16:0	$y=1306.12x+32597.43$ ( $R^2=0.9999$ , 312.5-4000.0 $\mu\text{M}$ )	160.0	250.0	400	395.9	98.98	9.3	9.0
				1200	1203.7	100.31	8.6	8.4
				3600	3593.8	99.83	7.1	8.0
T- C18:0	$y=1214.20x+33266.57$ ( $R^2=0.9998$ , 312.5-4000.0 $\mu\text{M}$ )	160.0	250.0	400	397.6	99.4	8.7	9.0
				1200	1206.5	100.5	8.7	7.6
				3600	3598.6	100.0	6.4	7.9