

**S1 Table. Short term stability of PTX and its metabolite 6 $\alpha$ -OH-PTX in human plasma samples.**

Analytes	Nominal conc. (ng/mL)	T = 4h (RT)			T = 72h in autosampler (4°C)		
		Mean $\pm$ SD	Prec. %	Acc. %	Mean $\pm$ SD	Prec. %	Acc. %
<b>PTX</b>	3	2.71 $\pm$ 0.21	7.7	90.2	3.03 $\pm$ 0.03	1.1	101.1
	625	561.64 $\pm$ 26.83	4.8	89.9	617.20 $\pm$ 15.39	2.5	98.8
	7500	6658.95 $\pm$ 378.35	5.7	88.8	6703.78 $\pm$ 435.30	6.5	89.4
<b>6<math>\alpha</math>-OH-PTX</b>	3	2.58 $\pm$ 0.02	0.7	86.0	2.74 $\pm$ 0.19	7.1	91.4
	75	66.60 $\pm$ 1.64	2.5	88.8	76.88 $\pm$ 1.55	2.0	102.5
	750	666.35 $\pm$ 36.97	5.5	88.8	725.84 $\pm$ 25.13	3.5	96.8

**S2 Table. Stability of PTX and 6 $\alpha$ -OH-PTX, in human plasma samples, after 2 freeze-thaw cycles and after 7 months of storage at -80°C.**

Analytes	Nominal conc. (ng/mL)	After 2 freeze-thaw cycles			Stored at -80°C over 7 months		
		Mean $\pm$ SD	Prec. %	Acc. %	Mean $\pm$ SD	Prec. %	Acc. %
PTX	3	3.21 $\pm$ 0.03	0.9	107.1	2.97 $\pm$ 0.11	3.8	99.0
	625	706.72 $\pm$ 15.66	2.2	113.1	591.47 $\pm$ 8.31	1.4	94.6
	7500	7683.00 $\pm$ 236.01	3.1	102.4	7739.55 $\pm$ 354.80	4.5	103.2
6 $\alpha$ -OH-PTX	3	2.82 $\pm$ 0.36	12.8	94.0	2.69 $\pm$ 0.1	3.8	89.6
	75	84.19 $\pm$ 2.57	3.1	112.2	76.19 $\pm$ 2.35	3.1	101.6
	750	814.86 $\pm$ 2.24	0.3	108.6	771.01 $\pm$ 37.96	4.9	102.8

**S3 Table. Stability of the working solutions of PTX and 6 $\alpha$ -OH-PTX stored at -80°C over 27 months.**

Analytes	Nominal conc. (ng/mL)	Stored at -80°C over 27 months		
		Mean $\pm$ SD	Prec. %	Acc. %
PTX	3	3.20 $\pm$ 0.12	3.6	106.6
	625	704.35 $\pm$ 4.68	0.7	112.7
	7500	8499.14 $\pm$ 153.41	1.8	113.3
6 $\alpha$ -OH-PTX	3	3.17 $\pm$ 0.28	8.8	105.6
	75	83.78 $\pm$ 0.28	0.3	111.7
	750	851.94 $\pm$ 4.27	0.5	113.6