

Supplementary Table 2: List of fifty simulated samples tested by UPT-LFA and LC-MS. (Standard substances of morphine or methamphetamine were spiked into these saliva samples)

Diluted Concentration (ng mL ⁻¹)	Mop-UPT-LFA		LC-MS (Mop)		Diluted Concentration (ng mL ⁻¹)	Met-UPT-LFA		LC-MS (Met)	
	Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)		Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)
40	42.295	106%	41.326	103%	100	120.178	120%	119.094	119%
40	38.545	96%	39.658	99%	100	87.724	88%	91.915	92%
40	46.920	117%	34.324	86%	100	117.592	118%	115.360	115%
40	45.219	113%	39.367	98%	100	98.832	99%	99.773	100%
40	48.268	121%	35.920	90%	100	95.745	96%	98.910	99%
40	47.140	118%	34.350	86%	100	108.302	108%	99.800	100%
40	51.680	129%	28.700	72%	100	129.660	130%	94.269	94%
40	37.770	94%	31.823	80%	100	102.058	102%	104.233	104%
40	51.168	128%	38.238	96%	100	118.323	118%	89.887	90%
40	46.056	115%	39.355	98%	100	101.164	101%	103.886	104%
AVG	45.506	114%	36.306	91%	AVG	107.958	108%	101.713	102%
20	23.288	116%	17.571	88%	50	60.126	120%	52.025	104%
20	20.605	103%	22.543	113%	50	38.557	77%	51.582	103%
20	25.953	130%	18.148	91%	50	44.008	88%	51.153	102%
20	24.340	122%	19.761	99%	50	47.605	95%	45.287	91%
20	21.517	108%	18.064	90%	50	59.836	120%	55.050	110%
20	21.400	107%	20.582	103%	50	48.244	96%	51.200	102%

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	Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)		Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)
20	19.402	97%	16.964	85%	50	58.418	117%	48.994	98%
20	20.279	101%	14.561	73%	50	46.978	94%	59.792	120%
20	19.858	99%	13.496	67%	50	57.726	115%	47.624	95%
20	17.530	88%	16.854	84%	50	38.164	76%	44.989	90%
20	23.153	116%	20.003	100%	50	65.844	132%	58.734	117%
20	21.458	107%	19.345	97%	50	60.271	121%	49.594	99%
20	19.806	99%	18.378	92%	50	69.425	139%	48.635	97%
20	20.771	104%	15.192	76%	50	49.556	99%	50.971	102%
20	20.495	102%	17.874	89%	50	55.325	111%	56.391	113%
20	18.868	94%	20.163	101%	50	38.164	76%	39.224	78%
20	20.441	102%	16.521	83%	50	60.417	121%	50.025	100%
20	22.954	115%	16.316	82%	50	54.050	108%	49.805	100%
20	22.888	114%	18.089	90%	50	68.549	137%	46.048	92%
20	22.500	113%	18.104	91%	50	54.810	110%	51.481	103%
AVG	21.375	107%	17.926	90%	AVG	53.804	108%	50.430	101%
10	10.563	106%	9.469	95%	25	26.050	104%	19.241	77%
10	10.232	102%	9.917	99%	25	32.382	130%	22.759	91%

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Diluted Concentration (ng mL ⁻¹)	Mop-UPT-LFA		LC-MS (Mop)		Diluted Concentration (ng mL ⁻¹)	Met-UPT-LFA		LC-MS (Met)	
	Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)		Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)
10	10.114	101%	7.335	73%	25	28.246	113%	21.439	86%
10	9.026	90%	8.088	81%	25	29.853	119%	26.798	107%
10	9.713	97%	6.773	68%	25	29.576	118%	22.784	91%
10	9.651	97%	7.610	76%	25	19.767	79%	18.791	75%
10	8.771	88%	9.420	94%	25	25.504	102%	23.204	93%
10	9.484	95%	10.436	104%	25	20.613	82%	19.724	79%
10	9.775	98%	9.465	95%	25	23.351	93%	23.589	94%
10	7.640	76%	9.631	96%	25	20.816	83%	27.331	109%
10	8.971	90%	8.416	84%	25	39.602	158%	22.609	90%
10	9.054	91%	8.455	85%	25	26.517	106%	24.361	97%
10	9.322	93%	8.407	84%	25	18.100	72%	24.955	100%
10	11.221	112%	7.528	75%	25	24.501	98%	24.314	97%
10	12.086	121%	8.871	89%	25	20.580	82%	20.977	84%
10	9.620	96%	10.419	104%	25	20.249	81%	22.757	91%
10	9.381	94%	11.248	112%	25	18.938	76%	20.734	83%
10	10.181	102%	9.019	90%	25	21.617	86%	21.513	86%

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	Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)			Detected Concentration (ng mL ⁻¹)	Recovery (%)	Detected Concentration (ng mL ⁻¹)	Recovery (%)
10	10.148	101%	10.705	107%		25	24.671	99%	20.828	83%
10	11.026	110%	7.154	72%		25	20.782	83%	29.461	118%
AVG	9.799	98%	8.918	89%		AVG	24.586	98%	22.909	92%