

Table S1. Dynamic range, linearity, accuracy, and precision of eicosanoids in human BALF.

Analytes ID	Dynamic Range (ng/mL)	LLOQ (0.2 ng/mL)		LQC (1ng/mL)		MQC (30ng/mL)		HQC (100ng/mL)		ULOQ (500ng/mL)	
		Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD
1	0.2-500	93	18	102	15	104	4	113	7	107	5
3	0.2-500	114	5	113	4	106	5	108	3	90	4
4	0.2-500	107	15	98	5	103	4	97	3	95	5
6	0.2-500	95	8	96	11	103	2	101	2	107	6
7	0.2-500	96	9	94	13	97	8	89	6	86	4
14	0.2-500	97	8	85	10	94	6	92	3	96	2
17	0.2-500	101	10	93	5	103	2	100	4	104	4
18	0.2-500	98	6	100	12	104	4	95	2	86	5
19	0.2-500	93	10	97	7	104	3	96	3	95	4
20	0.2-500	97	7	99	8	99	4	92	3	86	4
21	0.2-500	98	15	105	8	110	3	91	2	91	5
22	0.2-500	112	7	97	9	98	3	91	3	97	5
23	0.2-500	111	4	105	3	100	2	94	1	97	1
24	0.2-500	109	13	107	8	115	3	114	6	106	4
28	0.2-500	113	13	100	7	97	2	91	2	85	3
29	0.2-500	104	15	94	6	99	3	92	3	91	5
30	0.2-500	109	6	105	7	110	2	92	4	70	4
31	0.2-500	103	9	86	3	88	4	93	4	108	6
32	0.2-500	103	5	92	6	96	4	88	4	85	2
33	0.2-500	111	5	89	3	102	3	96	1	86	5
34	0.2-500	100	4	94	14	94	1	90	1	101	2
35	0.2-500	107	17	92	8	95	3	107	5	115	4
36	0.2-500	110	6	98	4	103	4	97	2	85	3
37	0.2-500	92	9	99	5	104	3	107	4	109	5
38	0.2-500	105	12	105	7	101	6	110	4	115	1
39	0.2-500	103	13	100	7	99	3	102	3	109	4
40	0.2-500	110	15	102	13	95	2	99	3	113	2

44	0.2-500	92	12	98	6	95	2	90	3	107	3
45	0.2-500	93	18	102	15	104	4	113	7	107	5
	Dynamic Range	LLOQ (1ng/mL)		LQC (3ng/mL)		MQC (30ng/mL)		HQC (100ng/mL)		ULOQ (500ng/mL)	
9	1-500	90	7	112	9	109	6	94	5	85	6
10	1-500	93	14	115	2	112	3	98	2	85	7
11	1-500	95	8	106	10	101	5	115	8	114	4
12	1-500	93	11	103	6	104	5	120	5	109	7
13	1-500	106	9	108	5	97	8	114	8	115	4

Table S2. Dynamic range, linearity, accuracy, and precision of eicosanoids in human sputum.

Analytes ID	Dynamic Range (ng/mL)	LLOQ (0.2 ng/mL)		LQC (1ng/mL)		MQC (30ng/mL)		HQC (100ng/mL)		ULOQ (500ng/mL)	
		Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD
1	0.2-500	95	15	108	5	100	3	103	1	94	3
3	0.2-500	112	12	111	4	96	3	95	3	87	5
4	0.2-500	103	10	101	6	93	5	95	3	95	4
6	0.2-500	113	6	103	6	92	2	96	2	107	1
7	0.2-500	95	12	97	11	93	4	92	2	107	3
17	0.2-500	112	8	100	4	89	3	93	2	109	3
18	0.2-500	92	27	103	15	104	3	102	2	88	3
19	0.2-500	109	6	110	5	99	2	97	3	99	3
20	0.2-500	111	5	106	5	96	2	98	2	102	3
21	0.2-500	115	9	94	6	85	3	105	6	112	4
22	0.2-500	112	11	100	12	97	3	98	1	111	2
23	0.2-500	93	9	112	3	96	11	92	1	96	2
24	0.2-500	112	16	98	4	100	4	94	3	106	2
28	0.2-500	106	4	102	11	97	1	97	3	99	3
29	0.2-500	102	5	98	3	94	2	97	2	107	2
30	0.2-500	95	9	105	5	101	3	96	2	85	1
31	0.2-500	100	10	87	4	87	3	92	1	110	3
32	0.2-500	114	5	102	7	93	6	94	3	94	4
33	0.2-500	112	2	100	2	99	3	100	2	93	4
34	0.2-500	92	80	90	6	102	12	99	2	112	2
35	0.2-500	115	3	103	2	96	2	97	1	91	2
37	0.2-500	111	7	101	6	93	2	96	1	106	2
38	0.2-500	111	10	100	4	100	12	98	3	104	1
39	0.2-500	95	9	98	5	99	3	104	2	106	1
40	0.2-500	99	7	98	11	96	10	98	2	110	1
44	0.2-500	99	10	93	4	93	1	92	2	115	4
45	0.2-500	95	15	108	5	100	3	103	1	94	3

	Dynamic Range (ng/mL)	LLOQ (1ng/mL)		LQC (3ng/mL)		MQC (30ng/mL)		HQC (100ng/mL)		ULOQ (500ng/mL)	
14	1-500	102	13	114	4	115	4	92	6	93	2
36	1-500	88	12	105	11	92	4	98	7	112	3
9	1-500	92	12	114	6	112	4	99	5	88	3
10	1-500	105	7	101	5	112	2	97	4	86	1
11	1-500	103	5	100	3	107	5	102	5	93	2
12	1-500	106	5	108	5	115	4	102	5	85	4
13	1-500	109	4	104	5	110	3	103	4	94	3

Table S3. Dynamic range, linearity, accuracy, and precision of eicosanoids in 10x diluted charcoal stripped serum.

Analytes ID	Dynamic Range (ng/mL)	LLOQ (0.2 ng/mL)		LQC (1ng/mL)		MQC (30ng/mL)		HQC (100ng/mL)		ULOQ (500ng/mL)	
		Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD	Accuracy	% RSD
1	0.2-500	89	11	90	6	93	3	103	4	107	5
4	0.2-500	105	14	100	4	103	4	98	3	87	3
6	0.2-500	93	11	101	9	98	4	100	4	101	3
7	0.2-500	106	6	99	3	101	2	104	3	111	3
14	0.2-500	105	6	95	10	85	3	107	6	110	10
17	0.2-500	109	9	100	8	93	3	94	3	108	3
18	0.2-500	93	12	96	6	96	2	100	3	115	3
20	0.2-500	98	9	94	8	100	4	97	3	98	3
21	0.2-500	95	15	91	10	98	2	99	4	103	4
22	0.2-500	103	9	89	4	92	3	100	2	109	4
24	0.2-500	96	12	101	3	100	2	100	1	106	1
28	0.2-500	104	8	85	8	99	3	100	2	106	4
29	0.2-500	93	9	94	11	102	3	99	5	103	3
30	0.2-500	110	9	99	4	96	3	97	2	105	4
31	0.2-500	102	13	115	3	103	2	96	3	78	8
32	0.2-500	106	10	89	3	94	2	103	3	113	5
33	0.2-500	104	10	104	7	96	6	102	3	89	6
34	0.2-500	99	9	94	4	100	4	101	2	96	3
35	0.2-500	105	12	89	14	95	3	95	2	107	2
36	0.2-500	106	9	94	11	87	7	101	9	95	4
37	0.2-500	107	5	96	6	98	3	100	3	97	3
38	0.2-500	113	11	97	6	93	2	96	1	107	1
39	0.2-500	113	9	104	6	94	5	102	3	111	3
44	0.2-500	100	10	93	8	94	4	97	2	107	3
45	0.2-500	102	10	98	8	99	2	101	2	115	2

	Dynamic Range (ng/mL)	LLOQ (1ng/mL)		LQC (3ng/mL)		MQC (30ng/mL)		HQC (100ng/mL)		ULOQ (500ng/mL)	
9	1-500	104	7	98	4	98	3	92	3	85	4
10	1-500	98	4	100	6	101	6	84	2	77	4
11	1-500	104	6	96	5	98	3	95	2	85	5
12	1-500	114	4	98	5	97	4	85	3	88	7
13	1-500	110	7	99	2	102	4	92	4	85	4
19	1-500	90	12	115	3	105	3	99	3	89	3
23	1-500	103	9	99	8	92	2	91	2	102	2
40	1-500	97	12	98	6	97	4	98	4	102	3

