単位 μM	肺がん			胃がん			卵巣がん	大腸がん			アトピー性皮膚炎		
	全体	男	女	全体	男	女	全体(=女)	全体	男	女	全体	男	女
Pyruvate	68.0 ± 44.2	69.1 ± 41.2	66.7 ± 47.6	61.3 ± 24.9	70.0 ± 25.7	52.6 ± 20.8	53.2 ± 36.3	54.6 ± 46.2	49.7 ± 35.6	61.8 ± 57.8	48.8 ± 25.5	51.5 ± 27.6	44.9 ± 21.3
Lactate	1520.7 ± 652.8	1830.9 ± 571.6	1141.6 ± 535.0	1620.2 ± 685.2	1283.1 ± 682.2	1957.3 ± 496.3	1502.9 ± 906.1	1726.3 ± 769.4	1488.8 ± 765.1	2082.5 ± 624.8	1441.3 ± 732.3	1451.8 ± 910.9	1425.6 ± 309.0
Glycerol 3-phosphate	1.4 ± 1.2	1.2 ± 1.2	1.7 ± 1.2	1.4 ± 1.1	1.6 ± 0.96	1.1 ± 1.2	1.3 ± 1.1	1.1 ± 0.56	1.2 ± 0.49	0.97 ± 0.62	1.2 ± 1.1	1.4 ± 1.3	1.1 ± 0.68
cis-Aconitate	3.5 ± 1.9	3.1 ± 1.8	4.0 ± 2.0	4.1 ± 2.5	5.3 ± 3.0	2.9 ± 0.70	4.4 ± 3.3	2.4 ± 1.1	2.3 ± 1.1	2.7 ± 1.2	3.4 ± 2.4	3.5 ± 1.7	3.3 ± 3.1
α-Ketoglutaric acid	15.9 ± 12.2	16.5 ± 11.4	15.2 ± 13.2	15.5 ± 12.9	15.1 ± 6.7	15.9 ± 17.0	12.0 ± 6.1	10.5 ± 4.0	9.0 ± 2.9	12.7 ± 4.3	11.0 ± 6.4	12.1 ± 7.8	9.4 ± 2.8
Succinate	9.7 ± 3.2	10.0 ± 3.1	9.3 ± 3.4	10.6 ± 4.0	10.8 ± 4.8	10.4 ± 3.1	9.6 ± 2.7	8.1 ± 2.9	7.8 ± 2.6	8.6 ± 3.2	9.3 ± 3.6	9.5 ± 3.7	8.9 ± 3.5
Fumarate	3.3 ± 2.4	3.6 ± 3.1	3.0 ± 0.90	3.7 ± 2.1	3.9 ± 2.4	3.6 ± 1.8	3.2 ± 1.3	2.4 ± 0.81	2.3 ± 0.78	2.6 ± 0.84	3.1 ± 1.1	3.3 ± 1.1	2.8 ± 1.0
Malate	10.2 ± 6.9	8.9 ± 6.0	11.8 ± 7.6	13.4 ± 8.7	15.8 ± 10.6	10.9 ± 5.4	10.9 ± 7.8	6.7 ± 2.3	6.0 ± 1.9	7.9 ± 2.3	10.9 ± 7.1	12.8 ± 8.0	7.9 ± 4.0
2-Hydroxyglutaric Acid	4.7 ± 4.4	5.1 ± 5.6	4.2 ± 2.4	5.1 ± 4.3	4.8 ± 3.1	5.3 ± 5.3	4.5 ± 3.9	3.7 ± 2.2	4.1 ± 2.2	3.2 ± 2.0	4.7 ± 3.2	4.8 ± 2.6	4.7 ± 3.8
Gluconate	0.29 ± 0.71	0.20 ± 0.65	0.39 ± 0.76	0.69 ± 2.0	0.87 ± 2.6	0.51 ± 0.88	0.14 ± 0.50	0.47 ± 1.1	0.69 ± 1.4	0.14 ± 0.36	0.19 ± 0.47	0.13 ± 0.42	0.29 ± 0.51
Methionine Sulfoxide	2.4 ± 1.2	2.6 ± 1.4	2.1 ± 0.84	2.9 ± 1.3	3.1 ± 1.6	2.7 ± 0.94	2.6 ± 0.72	3.0 ± 1.3	3.2 ± 1.5	2.7 ± 0.86	2.8 ± 1.3	2.6 ± 1.2	3.2 ± 1.4
S-Adenosyl-L-methionine	0.10 ± 0.36	0.17 ± 0.47	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.03 ± 0.14	0 ± 0	0.08 ± 0.21
S-Adenosyl-L-homocysteine	0.06 ± 0.25	0.11 ± 0.33	0.01 ± 0.04	0.01 ± 0.03	0.01 ± 0.04	0 ± 0	0.03 ± 0.08	0 ± 0	0 ± 0	0 ± 0	0.06 ± 0.25	0.00 ± 0.02	0.14 ± 0.38
Cystathionine	0.79 ± 1.5	0.53 ± 1.2	1.1 ± 1.7	0.53 ± 0.97	0.40 ± 0.85	0.66 ± 1.1	0.44 ± 0.91	0.85 ± 1.4	0.80 ± 1.2	0.93 ± 1.6	0.74 ± 1.2	0.74 ± 1.2	0.75 ± 1.2
Cys	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.06 ± 0.26	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Hypotaurine	2.7 ± 2.9	3.2 ± 3.1	2.1 ± 2.5	3.3 ± 4.3	2.9 ± 4.0	3.7 ± 4.6	1.8 ± 2.5	0 ± 0	0 ± 0	0 ± 0	2.6 ± 3.4	3.7 ± 3.8	1.0 ± 2.0
Taurine	469.6 ± 176.1	482.9 ± 144.7	453.3 ± 207.0	511.1 ± 170.5	486.2 ± 176.9	535.9 ± 160.0	520.0 ± 362.6	453.3 ± 136.8	431.4 ± 141.6	486.2 ± 122.2	444.0 ± 129.1	484.6 ± 125.7	383.1 ± 108.5
Cystine	44.2 ± 14.8	47.0 ± 16.7	40.8 ± 11.2	38.6 ± 15.6	39.0 ± 12.8	38.2 ± 18.0	48.4 ± 11.2	39.3 ± 13.6	35.9 ± 13.2	44.4 ± 12.4	33.1 ± 10.5	30.6 ± 10.3	36.9 ± 9.8
Glutathione, reduced form	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.06 ± 0.28	0.11 ± 0.35	0 ± 0
Glutathione, oxidized form	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
N-Methyl-Arg	0.23 ± 0.16	0.18 ± 0.15	0.29 ± 0.15	0.25 ± 0.23	0.24 ± 0.25	0.25 ± 0.20	0.13 ± 0.13	0.13 ± 0.23	0.14 ± 0.28	0.11 ± 0.13	0.25 ± 0.16	0.25 ± 0.19	0.27 ± 0.13
ADMA	0.74 ± 0.23	0.82 ± 0.26	0.64 ± 0.13	0.72 ± 0.19	0.72 ± 0.21	0.72 ± 0.16	0.71 ± 0.14	0.68 ± 0.23	0.66 ± 0.29	0.71 ± 0.10	0.68 ± 0.21	0.66 ± 0.23	0.71 ± 0.19
SDMA	0.86 ± 0.55	0.99 ± 0.69	0.69 ± 0.19	1.0 ± 0.99	1.3 ± 1.3	0.78 ± 0.16	0.82 ± 0.28	0.87 ± 0.27	0.82 ± 0.33	0.93 ± 0.15	0.82 ± 0.54	0.69 ± 0.29	1.0 ± 0.74
2-Aminobutyrate	14.7 ± 6.7	15.9 ± 8.1	13.4 ± 4.0	15.3 ± 7.2	14.9 ± 7.8	15.7 ± 6.5	16.2 ± 4.4	14.5 ± 5.6	13.9 ± 5.7	15.2 ± 5.3	17.5 ± 7.8	17.5 ± 8.3	17.6 ± 7.0
γ-Glu-Ala	0.37 ± 0.99	0.37 ± 1.2	0.37 ± 0.71	1.2 ± 1.7	1.9 ± 1.9	0.41 ± 1.2	2.4 ± 3.4	0.45 ± 1.5	0.52 ± 1.7	0.35 ± 0.92	1.3 ± 2.0	1.4 ± 2.1	1.2 ± 1.7
Sarcosine	3.5 ± 2.2	3.0 ± 2.1	4.1 ± 2.1	3.2 ± 2.8	1.9 ± 2.0	4.6 ± 2.8	2.9 ± 2.1	3.7 ± 2.7	3.7 ± 3.1	3.8 ± 1.8	2.9 ± 1.4	2.5 ± 1.1	3.6 ± 1.6
Guanidinoacetate	3.3 ± 1.5	3.4 ± 1.7	3.2 ± 1.2	3.6 ± 1.6	3.8 ± 1.6	3.4 ± 1.6	2.8 ± 0.90	3.4 ± 1.6	3.9 ± 1.7	2.7 ± 0.88	3.7 ± 1.5	4.1 ± 1.7	3.1 ± 0.90
Ornithine	63.4 ± 20.6	71.1 ± 20.8	53.9 ± 15.8	58.8 ± 24.6	52.0 ± 23.2	65.5 ± 24.2	77.3 ± 33.5	67.3 ± 22.2	68.8 ± 25.4	65.1 ± 16.0	61.6 ± 20.8	60.9 ± 21.4	62.6 ± 19.9
Citrulline	35.9 ± 15.6	40.9 ± 18.5	29.9 ± 7.2	34.0 ± 10.5	36.8 ± 11.1	31.1 ± 8.9	34.8 ± 7.8	32.2 ± 9.6	29.7 ± 7.6	36.0 ± 11.0	36.7 ± 24.2	30.6 ± 8.8	45.9 ± 34.7
Creatine	29.4 ± 15.0	25.5 ± 16.8	34.1 ± 10.9	32.2 ± 13.6	27.7 ± 11.9	36.7 ± 13.7	39.4 ± 15.9	34.9 ± 18.6	33.5 ± 21.2	37.0 ± 13.7	36.5 ± 15.0	25.9 ± 7.5	52.4 ± 7.6
Creatinine	59.7 ± 50.3	72.9 ± 64.4	43.6 ± 9.4	55.7 ± 36.6	69.5 ± 47.3	41.8 ± 7.6	45.4 ± 13.2	50.1 ± 12.8	52.2 ± 15.2	47.1 ± 6.8	61.8 ± 63.0	49.3 ± 5.4	80.5 ± 96.5
γ-Guanidinobutyrate	0.32 ± 0.35	0.30 ± 0.20	0.34 ± 0.47	0.23 ± 0.21	0.27 ± 0.26	0.20 ± 0.13	0.28 ± 0.25	0.21 ± 0.14	0.22 ± 0.16	0.19 ± 0.10	0.20 ± 0.23	0.23 ± 0.28	0.14 ± 0.10
Hydroxyproline	16.6 ± 8.9	18.5 ± 9.8	14.4 ± 7.0	15.7 ± 7.6	16.4 ± 9.8	15.1 ± 4.4	16.2 ± 8.7	13.5 ± 4.4	13.8 ± 4.1	13.0 ± 4.7	15.5 ± 9.9	15.6 ± 11.3	15.5 ± 7.2
Gly	251.7 ± 74.8	252.3 ± 67.3	251.1 ± 83.0	301.8 ± 91.2	271.3 ± 50.7	332.2 ± 110.5	277.8 ± 76.6	220.3 ± 56.9	246.3 ± 53.1	181.4 ± 36.6	270.3 ± 64.7	261.8 ± 57.0	283.0 ± 72.9
Ala	430.9 ± 100.6	439.4 ± 105.3	420.5 ± 93.4	442.7 ± 116.4	448.9 ± 83.0	436.5 ± 141.9	414.1 ± 104.2	385.4 ± 107.3	393.0 ± 116.0	374.0 ± 91.6	379.5 ± 110.0	342.6 ± 91.2	434.9 ± 112.7
Ser	139.5 ± 29.1	134.7 ± 31.3	145.5 ± 25.0	144.3 ± 27.0	134.5 ± 15.9	154.1 ± 31.9	135.4 ± 20.8	136.2 ± 31.0	133.9 ± 32.9	139.7 ± 27.3	146.0 ± 28.7	136.1 ± 26.5	160.9 ± 25.2
Thr	89.4 ± 28.5	90.5 ± 26.1	88.0 ± 31.0	95.9 ± 35.1	99.9 ± 41.3	91.9 ± 26.9	100.1 ± 28.1	96.7 ± 38.8	104.4 ± 42.6	85.0 ± 28.8	112.3 ± 41.1	107.2 ± 41.1	120.0 ± 39.8
Val	189.4 ± 43.8	204.5 ± 42.8	170.9 ± 37.4	188.7 ± 49.1	182.8 ± 43.8	194.5 ± 53.2	205.4 ± 34.1	188.5 ± 56.0	188.5 ± 51.8	188.6 ± 61.8	207.7 ± 43.0	210.3 ± 46.4	203.7 ± 37.1
Ile	56.2 ± 18.5	59.3 ± 19.8	52.5 ± 16.0	55.8 ± 15.3	56.2 ± 15.8	55.4 ± 14.7	58.3 ± 16.1	52.2 ± 16.1	51.8 ± 18.3	52.7 ± 12.1	55.3 ± 15.3	53.3 ± 12.3	58.3 ± 18.5
Leu	115.8 ± 38.9	125.0 ± 46.4	104.5 ± 22.4	116.0 ± 42.0	115.7 ± 36.1	116.3 ± 47.2	121.5 ± 33.5	114.6 ± 29.2	114.2 ± 23.4	115.1 ± 36.1	124.2 ± 26.2	121.3 ± 26.2	128.5 ± 25.5
Lys	178.5 ± 41.4	181.2 ± 43.8	175.1 ± 38.0	187.1 ± 42.2	193.0 ± 47.4	181.2 ± 35.2	192.3 ± 46.9	180.0 ± 50.8	178.8 ± 50.3	181.7 ± 51.5	188.6 ± 49.9	180.3 ± 51.2	201.2 ± 45.1
Arg	85.9 ± 19.0	90.1 ± 22.4	80.7 ± 12.0	79.1 ± 13.8	75.0 ± 9.5	83.3 ± 15.9	74.7 ± 16.3	74.9 ± 19.7	74.3 ± 23.7	75.8 ± 11.4	69.5 ± 18.2	60.1 ± 11.2	83.6 ± 17.5
His	62.0 ± 14.4	57.3 ± 15.0	67.7 ± 11.3	69.2 ± 16.4	67.8 ± 12.0	70.6 ± 19.7	68.7 ± 11.8	65.5 ± 18.6	66.6 ± 19.9	63.8 ± 16.4	74.4 ± 19.2	74.7 ± 22.6	73.9 ± 12.3
Tyr	62.4 ± 11.7	65.3 ± 9.9	58.8 ± 12.7	58.7 ± 13.7	55.7 ± 5.9	61.7 ± 17.9	63.3 ± 12.0	64.7 ± 18.6	62.9 ± 21.1	67.4 ± 13.3	62.0 ± 17.4	57.1 ± 15.5	69.3 ± 17.5
Phe	73.9 ± 34.7	84.2 ± 41.5	61.3 ± 17.1	70.4 ± 23.6	66.2 ± 16.3	74.6 ± 28.5	65.4 ± 15.4	65.9 ± 10.4	68.4 ± 9.8	62.3 ± 10.2	59.7 ± 15.3	53.7 ± 12.1	68.7 ± 15.2
Trp	38.4 ± 9.3	38.6 ± 11.4	38.1 ± 5.8	38.6 ± 10.5	37.3 ± 11.1	39.8 ± 9.7	43.7 ± 8.1	44.8 ± 11.2	44.7 ± 10.0	44.8 ± 12.8	45.1 ± 11.8	44.5 ± 9.1	45.9 ± 14.8
Met	14.3 ± 4.0	13.9 ± 4.0	14.8 ± 4.1	17.6 ± 7.3	17.3 ± 4.5	17.9 ± 9.2	15.9 ± 4.8	17.8 ± 7.9	18.5 ± 9.3	16.6 ± 5.0	16.4 ± 6.2	15.0 ± 6.4	18.6 ± 5.1
Pro	164.7 ± 69.1	189.7 ± 81.7	134.1 ± 27.7	158.7 ± 58.2	148.1 ± 45.6	169.3 ± 66.9	153.2 ± 47.9	156.9 ± 55.0	165.5 ± 62.7	144.0 ± 37.3	147.9 ± 52.8	129.4 ± 48.5	175.5 ± 46.6
Gln	314.3 ± 138.0	294.3 ± 156.6	338.6 ± 106.0	322.0 ± 120.6	305.5 ± 117.5	338.5 ± 121.4	327.3 ± 100.2	387.3 ± 88.2	397.7 ± 84.2	371.7 ± 91.8	324.1 ± 87.5	278.1 ± 73.3	393.1 ± 56.1
Glu	95.7 ± 67.7	112.9 ± 65.7	74.6 ± 63.9	96.3 ± 77.4	69.8 ± 44.7	122.8 ± 92.7	78.0 ± 41.2	77.6 ± 41.6	84.3 ± 34.2	67.6 ± 49.1	60.1 ± 30.7	68.1 ± 35.3	48.1 ± 15.6
Asn	56.5 ± 17.0	58.5 ± 16.8	53.9 ± 16.9	54.2 ± 11.8	54.9 ± 7.3	53.4 ± 15.0	54.0 ± 11.2	49.5 ± 11.5	48.3 ± 12.0	51.3 ± 10.3	53.8 ± 15.8	51.1 ± 16.9	57.7 ± 13.1
Asp	35.5 ± 27.5	43.2 ± 27.6	26.1 ± 24.3	27.5 ± 14.5	20.2 ± 11.3	34.8 ± 13.7	28.6 ± 16.3	23.2 ± 10.4	25.8 ± 10.3	19.3 ± 9.4	19.8 ± 8.1	21.1 ± 7.7	17.8 ± 8.3
Uracil	4.2 ± 1.8	4.6 ± 2.1	3.7 ± 1.2	4.4 ± 1.9	4.5 ± 2.4	4.4 ± 1.4	4.7 ± 2.0	5.9 ± 3.8	7.0 ± 4.5	4.1 ± 1.3	5.0 ± 2.1	4.6 ± 2.2	5.6 ± 1.7
Guanosine	0.46 ± 0.71	0.61 ± 0.80	0.28 ± 0.53	0.59 ± 0.87	0.66 ± 1.1	0.51 ± 0.56	0.33 ± 0.53	0.47 ± 0.87	0.41 ± 0.93	0.56 ± 0.75	1.0 ± 1.1	0.66 ± 1.0	1.6 ± 0.88
Uridine	13.5 ± 6.5	14.6 ± 7.8	12.1 ± 4.1	13.9 ± 8.5	12.4 ± 8.3	15.3 ± 8.5	12.7 ± 5.6	18.4 ± 9.2	19.0 ± 9.8	17.4 ± 8.0	12.4 ± 8.0	9.8 ± 5.7	16.4 ± 9.2
Inosine	2.8 ± 4.2	2.4 ± 3.6	3.3 ± 4.7	3.7 ± 4.8	3.7 ± 5.8	3.8 ± 3.5	2.9 ± 2.5	3.2 ± 4.3	3.2 ± 4.6	3.2 ± 3.9	4.9 ± 5.8	3.7 ± 5.6	6.6 ± 5.7
Hypoxanthine	10.2 ± 4.2	11.0 ± 3.4	9.1 ± 4.8	11.9 ± 6.5	8.5 ± 5.1	15.4 ± 5.8	9.5 ± 4.5	9.6 ± 3.1	8.9 ± 2.4	10.6 ± 3.6	9.2 ± 4.0	9.9 ± 4.0	8.1 ± 3.8
Xanthine	4.3 ± 2.2	4.3 ± 2.4	4.3 ± 1.8	4.1 ± 2.3	2.9 ± 2.0	5.4 ± 1.8	2.8 ± 1.6	3.7 ± 2.8	3.7 ± 3.4	3.7 ± 1.8	3.4 ± 2.2	3.6 ± 2.4	3.1 ± 2.0
Uric acid	196.6 ± 103.9	225.1 ± 121.7	161.8 ± 60.4	185.6 ± 79.8	213.4 ± 85.8	157.8 ± 61.7	197.2 ± 83.3	170.9 ± 58.0	147.6 ± 44.6	205.8 ± 58.3	200.7 ± 81.6	220.2 ± 87.7	171.4 ± 60.6
β-Ala	5.5 ± 5.3	6.8 ± 6.1	4.0 ± 3.6	3.6 ± 2.5	3.9 ± 2.9	3.2 ± 1.9	99.6 ± 298.5	5.2 ± 4.0	5.0 ± 4.5	5.5 ± 2.8	5.4 ± 3.4	5.3 ± 3.8	5.5 ± 2.6
L-Carnitine	52.1 ± 14.4	55.5 ± 17.4	47.9 ± 7.7	53.9 ± 13.2	53.9 ± 17.2	53.9 ± 7.2	44.8 ± 13.5	47.4 ± 12.5	46.3 ± 10.4	49.1 ± 14.9	50.8 ± 12.3	54.1 ± 12.6	46.0 ± 10.2
N-Acetylaspartate	0.74 ± 0.62	0.77 ± 0.76	0.71 ± 0.38	0.72 ± 0.76	0.97 ± 0.95	0.46 ± 0.36	0.71 ± 0.37	0.63 ± 0.39	0.56 ± 0.31	0.74 ± 0.45	0.68 ± 0.69	0.44 ± 0.16	1.0 ± 0.97
γ-Glu-Arg	1.4 ± 1.1	1.7 ± 1.1	1.1 ± 1.1	1.2 ± 1.3	1.4 ± 1.3	1.1 ± 1.3	1.8 ± 1.6	1.5 ± 1.9	1.4 ± 2.1	1.7 ± 1.5	1.6 ± 1.1	1.4 ± 0.84	1.8 ± 1.3
γ-Glu-Citrulline	0.25 ± 0.41	0.26 ± 0.44	0.24 ± 0.35	0.06 ± 0.15	0.06 ± 0.13	0.05 ± 0.16	0.18 ± 0.34	0 ± 0	0 ± 0	0 ± 0	0.35 ± 0.44	0.44 ± 0.41	0.23 ± 0.45
γ-Glu-Gln	4.4 ± 2.2	4.4 ± 2.4	4.3 ± 2.0	4.8 ± 2.9	5.0 ± 2.6	4.6 ± 3.2	4.9 ± 1.9	4.0 ± 3.3	3.5 ± 3.5	4.7 ± 2.9	6.2 ± 2.7	6.5 ± 3.3	5.7 ± 1.4
γ-Glu-Glu	1.1 ± 1.0	0.77 ± 1.0	1.6 ± 0.88	1.6 ± 1.7	2.3 ± 2.1	0.97 ± 0.86	1.3 ± 0.88	1.0 ± 1.4	0.72 ± 1.2	1.5 ± 1.5	2.1 ± 2.3	2.4 ± 2.7	1.6 ± 1.6
γ-Glu-His	0.64 ± 0.90	0.30 ± 0.41	1.1 ± 1.1	0.23 ± 0.41	0.41 ± 0.50	0.06 ± 0.18	0.35 ± 0.59	0.19 ± 0.84	0 ± 0	0.48 ± 1.3	0.55 ± 0.74	0.72 ± 0.75	0.30 ± 0.65
γ-Glu-Leu	0.66 ± 0.69	0.69 ± 0.59	0.63 ± 0.78	0.69 ± 0.45	0.79 ± 0.38	0.59 ± 0.49	0.57 ± 0.52	0.24 ± 0.37	0.29 ± 0.41	0.17 ± 0.29	0.68 ± 0.55	0.79 ± 0.40	0.51 ± 0.68
γ-Glu-Lys	0.95 ± 1.2	0.96 ± 0.96	0.95 ± 1.4	0.69 ± 0.96	0.80 ± 1.0	0.58 ± 0.91	0.63 ± 0.82	0.38 ± 1.6	0 ± 0	0.94 ± 2.5	1.2 ± 1.2	1.6 ± 1.2	0.49 ± 0.87
γ-Glu-Phe	0.57 ± 0.92	0.47 ± 0.42	0.69 ± 1.3	0.25 ± 0.38	0.38 ± 0.42	0.13 ± 0.29	0.25 ± 0.42	0 ± 0	0 ± 0	0 ± 0	0.29 ± 0.53	0.33 ± 0.46	0.23 ± 0.61
γ-Glu-Ser	1.4 ± 1.4	1.2 ± 1.2	1.5 ± 1.5	0.88 ± 1.2	0.69 ± 0.94	1.1 ± 1.4	0.50 ± 0.94	0.77 ± 1.2	1.1 ± 1.4	0.21 ± 0.56	1.1 ± 1.5	0.83 ± 1.1	1.4 ± 1.9
γ-Glu-Thr	0.56 ± 1.1	0.51 ± 0.89	0.61 ± 1.2	0.23 ± 0.36	0.29 ± 0.39	0.16 ± 0.32	0.17 ± 0.53	0.08 ± 0.36	0 ± 0	0.21 ± 0.55	0.41 ± 0.66	0.35 ± 0.45	0.49 ± 0.87
γ-Glu-Tyr	0.29 ± 0.70	0.16 ± 0.31	0.46 ± 0.96	0.25 ± 0.55	0.38 ± 0.66	0.13 ± 0.38	0.36 ± 0.65	0.16 ± 0.71	0 ± 0	0.41 ± 1.1	0.41 ± 0.76	0.54 ± 0.91	0.23 ± 0.40
γ-Glu-Val	0.67 ± 0.95	0.71 ± 0.92	0.62 ± 0.97	0.46 ± 0.57	0.66 ± 0.66	0.27 ± 0.34	0.40 ± 0.41	0.29 ± 0.61	0.28 ± 0.67	0.29 ± 0.52	0.77 ± 0.93	0.72 ± 0.75	0.84 ± 1.1
Gly-Gly	3.5 ± 2.4	3.3 ± 1.9	3.7 ± 2.9	3.4 ± 2.5	2.8 ± 2.0	4.0 ± 2.7	4.0 ± 2.0	3.9 ± 2.2	3.9 ± 2.1	3.9 ± 2.3	3.1 ± 1.9	3.5 ± 1.3	2.5 ± 2.3
Gly-Leu	0.31 ± 0.63	0.18 ± 0.27	0.47 ± 0.86	0.27 ± 0.36	0.25 ± 0.35	0.29 ± 0.37	0.29 ± 0.50	0.04 ± 0.18	0.07 ± 0.23	0 ± 0	0.27 ± 0.46	0.34 ± 0.55	0.17 ± 0.27
Acetyl carnitine	7.0 ± 3.6	7.1 ± 3.9	7.0 ± 3.2	8.8 ± 4.1	8.3 ± 5.0	9.2 ± 2.7	7.5 ± 2.7	3.8 ± 4.3	3.8 ± 3.8	3.8 ± 5.0	6.3 ± 2.5	6.3 ± 2.8	6.2 ± 2.1
Cysteine-glutathione Disulfide	1.3 ± 0.88	1.2 ± 0.90	1.4 ± 0.84	2.1 ± 1.4	2.2 ± 1.1	1.9 ± 1.6	2.0 ± 1.3	1.5 ± 1.2	1.4 ± 1.5	1.6 ± 0.68	3.2 ± 2.5	3.6 ± 2.8	2.5 ± 1.8
S-Methyl-L-cysteine	5.1 ± 2.0	4.3 ± 1.5	6.1 ± 2.0	5.8 ± 3.1	5.2 ± 1.9	6.3 ± 3.8	6.3 ± 3.5	5.6 ± 2.6	5.5 ± 2.5	5.6 ± 2.7	4.8 ± 1.1	4.8 ± 1.2	4.9 ± 1.0

単位 μM	気管支喘息			肺気腫			間質性肺炎・肺線維症			緑内障			関節リウマチ		
	全体	男	女	全体	男	女	全体	男	女	全体	男	女	全体	男	女
Pyruvate	70.8 ± 44.5	74.9 ± 39.7	67.5 ± 47.8	41.8 ± 20.5	38.9 ± 10.4	43.3 ± 24.1	71.6 ± 33.2	78.4 ± 37.3	64.9 ± 26.9	64.3 ± 29.4	68.5 ± 28.6	59.2 ± 29.6	65.4 ± 38.3	66.8 ± 17.5	64.5 ± 47.4
Lactate	1432.9 ± 625.0	1528.8 ± 710.0	1354.4 ± 533.1	1309.4 ± 675.6	1403.8 ± 627.5	1258.5 ± 694.9	1698.5 ± 851.6	1768.9 ± 916.6	1628.1 ± 774.8	1482.5 ± 712.1	1388.3 ± 826.4	1597.7 ± 517.7	1233.1 ± 523.9	1228.8 ± 413.2	1236.0 ± 586.1
Glycerol 3-phosphate	1.1 ± 0.90	1.1 ± 0.74	1.2 ± 1.0	1.2 ± 1.1	1.3 ± 1.5	1.2 ± 0.73	1.8 ± 1.4	2.1 ± 1.6	1.5 ± 0.98	1.1 ± 0.96	1.5 ± 1.1	0.74 ± 0.55	1.2 ± 0.83	1.6 ± 0.61	1.0 ± 0.88
cis-Aconitate	3.3 ± 1.9	3.0 ± 1.7	3.5 ± 2.0	3.9 ± 2.9	3.3 ± 1.7	4.2 ± 3.3	3.8 ± 2.3	3.9 ± 2.8	3.6 ± 1.7	3.6 ± 2.1	4.1 ± 2.1	3.1 ± 1.9	3.4 ± 2.1	3.1 ± 1.7	3.6 ± 2.3
α-Ketoglutaric acid	13.7 ± 8.8	16.0 ± 11.5	11.9 ± 4.9	11.0 ± 2.9	12.1 ± 2.4	10.3 ± 3.0	14.2 ± 5.0	14.4 ± 5.1	14.0 ± 4.9	11.8 ± 4.3	13.5 ± 4.2	9.8 ± 3.5	10.7 ± 4.8	11.7 ± 5.7	10.1 ± 4.0
Succinate	8.8 ± 3.4	9.1 ± 3.6	8.5 ± 3.2	9.7 ± 4.2	9.5 ± 3.9	9.7 ± 4.3	9.3 ± 3.2	9.9 ± 3.6	8.8 ± 2.7	8.2 ± 3.3	8.2 ± 2.0	8.3 ± 4.4	8.8 ± 2.9	8.1 ± 2.7	9.3 ± 2.9
Fumarate	3.4 ± 1.7	3.6 ± 1.0	3.2 ± 2.0	3.4 ± 1.9	3.3 ± 1.3	3.4 ± 2.2	3.8 ± 1.2	3.9 ± 1.2	3.7 ± 1.1	4.0 ± 4.0	3.1 ± 0.84	5.0 ± 5.7	4.8 ± 5.4	2.7 ± 1.1	6.1 ± 6.6
Malate	10.7 ± 7.2	11.8 ± 7.1	9.8 ± 7.2	9.7 ± 6.3	8.7 ± 4.7	10.2 ± 6.9	12.5 ± 8.9	15.2 ± 10.6	9.8 ± 5.7	10.0 ± 7.1	11.0 ± 6.2	8.8 ± 7.9	9.1 ± 6.8	9.7 ± 7.9	8.8 ± 5.8
2-Hydroxyglutaric Acid	5.1 ± 3.5	4.8 ± 3.4	5.3 ± 3.5	4.1 ± 3.3	2.7 ± 1.8	4.9 ± 3.6	4.5 ± 2.6	5.2 ± 3.1	3.9 ± 1.8	4.0 ± 2.5	4.3 ± 2.4	3.6 ± 2.7	3.7 ± 2.3	3.7 ± 2.5	3.6 ± 2.1
Gluconate	0.68 ± 2.6	0 ± 0	1.2 ± 3.4	0 ± 0	0 ± 0	0 ± 0	0.32 ± 0.66	0.30 ± 0.60	0.33 ± 0.71	1.3 ± 4.4	0.12 ± 0.37	2.7 ± 6.3	0.31 ± 0.75	0.78 ± 1.0	0 ± 0
Methionine Sulfoxide	2.8 ± 1.4	2.2 ± 0.64	3.3 ± 1.7	3.1 ± 1.0	3.3 ± 0.81	2.9 ± 1.1	3.3 ± 1.0	3.5 ± 0.95	3.1 ± 1.1	2.5 ± 1.2	2.3 ± 0.87	2.8 ± 1.4	3.6 ± 1.6	4.1 ± 1.9	3.3 ± 1.2
S-Adenosyl-L-methionine	0.01 ± 0.05	0.02 ± 0.07	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.02 ± 0.07	0.04 ± 0.09	0 ± 0	0 ± 0	0 ± 0	0 ± 0
S-Adenosyl-L-homocysteine	0.02 ± 0.06	0.04 ± 0.08	0.01 ± 0.04	0.00 ± 0.02	0 ± 0	0.01 ± 0.03	0.01 ± 0.03	0 ± 0	0.01 ± 0.04	0.02 ± 0.06	0.02 ± 0.07	0.01 ± 0.04	0 ± 0	0 ± 0	0 ± 0
Cystathionine	0.39 ± 0.92	0.74 ± 1.2	0.10 ± 0.32	0.57 ± 1.2	0.77 ± 1.3	0.47 ± 1.1	0.88 ± 1.2	0.74 ± 1.1	1.0 ± 1.3	0.46 ± 0.75	0.37 ± 0.66	0.57 ± 0.82	0.54 ± 1.0	1.1 ± 1.4	0.18 ± 0.31
Cys	0 ± 0	0 ± 0	0 ± 0	0.04 ± 0.19	0 ± 0	0.07 ± 0.23	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Hypotaurine	1.8 ± 3.3	2.0 ± 3.1	1.7 ± 3.5	2.4 ± 3.3	5.8 ± 3.3	0.59 ± 1.1	2.5 ± 2.9	2.9 ± 2.9	2.1 ± 2.8	2.2 ± 2.9	2.3 ± 2.3	2.1 ± 3.4	2.0 ± 2.6	2.8 ± 3.4	1.5 ± 1.8
Taurine	449.1 ± 236.4	420.3 ± 157.6	472.6 ± 283.0	428.7 ± 243.0	438.4 ± 157.3	423.5 ± 278.3	525.9 ± 154.1	512.0 ± 132.4	539.7 ± 172.0	544.3 ± 464.1	414.5 ± 167.7	702.9 ± 631.3	425.4 ± 174.8	494.7 ± 163.8	379.2 ± 166.5
Cystine	30.8 ± 17.6	21.0 ± 11.9	38.8 ± 17.5	36.6 ± 13.8	41.8 ± 5.5	33.8 ± 15.9	45.4 ± 10.9	48.9 ± 9.7	41.9 ± 11.0	45.9 ± 12.6	48.0 ± 13.1	43.4 ± 11.4	47.0 ± 13.3	47.7 ± 12.9	46.6 ± 13.5
Glutathione, reduced form	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Glutathione, oxidized form	0.05 ± 0.22	0.11 ± 0.31	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.06 ± 0.26	0 ± 0	0.12 ± 0.36	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
N-Methyl-Arg	0.20 ± 0.12	0.22 ± 0.14	0.18 ± 0.09	0.17 ± 0.13	0.12 ± 0.04	0.20 ± 0.15	0.23 ± 0.19	0.23 ± 0.17	0.23 ± 0.21	0.20 ± 0.16	0.14 ± 0.10	0.27 ± 0.19	0.17 ± 0.14	0.15 ± 0.12	0.19 ± 0.16
ADMA	0.69 ± 0.14	0.66 ± 0.16	0.71 ± 0.12	0.67 ± 0.18	0.63 ± 0.11	0.68 ± 0.21	0.68 ± 0.15	0.66 ± 0.15	0.70 ± 0.15	0.69 ± 0.14	0.72 ± 0.14	0.65 ± 0.11	0.68 ± 0.13	0.73 ± 0.12	0.65 ± 0.13
SDMA	0.67 ± 0.13	0.70 ± 0.15	0.66 ± 0.10	0.71 ± 0.14	0.66 ± 0.17	0.73 ± 0.12	0.74 ± 0.17	0.72 ± 0.22	0.75 ± 0.09	0.85 ± 0.70	0.98 ± 0.91	0.69 ± 0.14	0.73 ± 0.17	0.82 ± 0.13	0.67 ± 0.16
2-Aminobutyrate	16.7 ± 5.3	16.7 ± 6.1	16.7 ± 4.6	14.9 ± 4.6	18.2 ± 5.4	13.1 ± 2.7	16.2 ± 8.6	19.1 ± 8.9	13.3 ± 7.2	20.7 ± 9.0	25.4 ± 8.0	14.9 ± 6.3	16.6 ± 5.3	16.3 ± 6.1	16.8 ± 4.6
γ-Glu-Ala	0.77 ± 1.4	0.96 ± 1.5	0.61 ± 1.3	1.6 ± 2.6	2.6 ± 2.4	1.1 ± 2.5	0.96 ± 1.6	1.2 ± 1.7	0.67 ± 1.4	2.2 ± 2.8	2.5 ± 3.1	1.9 ± 2.4	1.2 ± 2.6	1.8 ± 3.6	0.73 ± 1.3
Sarcosine	3.8 ± 1.5	3.6 ± 1.2	3.9 ± 1.8	3.5 ± 1.2	3.7 ± 1.2	3.4 ± 1.2	3.8 ± 2.0	4.4 ± 2.4	3.3 ± 1.2	3.6 ± 1.8	3.5 ± 1.9	3.8 ± 1.6	6.3 ± 7.1	9.0 ± 10.6	4.5 ± 1.3
Guanidinoacetate	3.5 ± 1.5	3.2 ± 1.3	3.8 ± 1.5	4.0 ± 2.3	6.1 ± 2.5	2.9 ± 1.0	3.4 ± 1.2	3.8 ± 1.3	3.0 ± 0.94	3.7 ± 1.8	4.2 ± 1.6	3.1 ± 1.8	3.2 ± 1.5	4.1 ± 1.8	2.6 ± 0.89
Ornithine	62.8 ± 20.0	62.6 ± 22.6	62.9 ± 17.7	62.9 ± 21.4	71.1 ± 20.3	58.5 ± 20.6	74.9 ± 25.8	84.2 ± 30.4	65.6 ± 15.3	65.8 ± 14.3	65.7 ± 15.5	66.0 ± 12.7	64.0 ± 16.5	62.5 ± 21.6	64.9 ± 12.0
Citrulline	37.9 ± 11.8	36.9 ± 9.7	38.8 ± 13.2	42.5 ± 15.9	57.1 ± 16.2	34.7 ± 8.5	39.3 ± 11.4	39.0 ± 11.6	39.5 ± 11.3	40.5 ± 12.3	43.0 ± 13.2	37.4 ± 10.5	42.1 ± 19.9	42.7 ± 25.5	41.7 ± 15.2
Creatine	41.1 ± 13.9	39.8 ± 14.0	42.1 ± 13.8	40.2 ± 17.1	35.4 ± 11.4	42.8 ± 19.0	38.7 ± 15.6	35.3 ± 19.5	42.1 ± 9.1	42.1 ± 12.5	42.4 ± 14.9	41.6 ± 8.5	40.1 ± 18.5	36.9 ± 17.8	42.3 ± 18.6
Creatinine	46.1 ± 10.1	47.2 ± 12.6	45.2 ± 7.5	45.2 ± 10.4	51.0 ± 6.4	42.1 ± 10.9	50.8 ± 12.8	55.9 ± 11.2	45.8 ± 12.3	52.2 ± 25.7	61.4 ± 30.9	40.8 ± 7.8	49.2 ± 12.0	57.5 ± 11.3	43.7 ± 9.0
γ-Guanidinobutyrate	0.19 ± 0.18	0.21 ± 0.19	0.18 ± 0.16	0.29 ± 0.37	0.14 ± 0.03	0.37 ± 0.43	0.18 ± 0.11	0.16 ± 0.09	0.20 ± 0.13	0.23 ± 0.17	0.18 ± 0.13	0.30 ± 0.20	0.22 ± 0.13	0.29 ± 0.10	0.18 ± 0.12
Hydroxyproline	21.9 ± 36.0	30.1 ± 51.4	15.3 ± 9.5	11.6 ± 4.8	14.4 ± 5.5	10.1 ± 3.7	16.4 ± 11.0	21.3 ± 13.0	11.6 ± 5.1	15.1 ± 5.6	15.3 ± 5.9	14.9 ± 5.3	17.9 ± 7.5	17.1 ± 9.6	18.4 ± 5.7
Gly	273.9 ± 85.5	253.6 ± 88.2	290.6 ± 79.5	255.1 ± 66.3	273.1 ± 68.6	245.4 ± 63.0	240.9 ± 62.6	242.7 ± 51.1	239.0 ± 72.2	231.9 ± 63.1	229.8 ± 46.8	234.5 ± 78.4	220.8 ± 61.5	209.3 ± 33.9	228.5 ± 73.4
Ala	432.7 ± 94.1	418.4 ± 80.8	444.5 ± 102.2	399.3 ± 86.2	416.8 ± 65.1	389.9 ± 94.4	439.7 ± 97.1	433.9 ± 96.5	445.4 ± 97.3	441.8 ± 82.5	456.0 ± 93.2	424.4 ± 62.7	407.2 ± 80.5	436.2 ± 87.1	387.9 ± 69.4
Ser	140.8 ± 35.6	136.7 ± 30.5	144.2 ± 38.9	133.6 ± 30.5	143.9 ± 36.5	128.0 ± 25.0	138.1 ± 28.1	142.5 ± 26.2	133.7 ± 29.3	134.0 ± 21.7	132.2 ± 21.1	136.2 ± 22.2	126.3 ± 32.6	134.7 ± 27.2	120.7 ± 34.7
Thr	107.8 ± 38.4	94.0 ± 22.1	119.1 ± 44.7	100.9 ± 39.0	120.5 ± 47.2	90.3 ± 28.7	100.4 ± 40.1	110.9 ± 41.1	89.8 ± 36.0	102.8 ± 33.0	114.2 ± 36.9	88.9 ± 20.1	115.4 ± 28.7	119.7 ± 32.9	112.5 ± 25.2
Val	227.9 ± 49.3	232.3 ± 49.7	224.4 ± 48.6	191.7 ± 42.7	214.3 ± 31.5	179.6 ± 43.0	202.2 ± 41.0	210.4 ± 38.6	193.9 ± 41.6	221.6 ± 53.0	242.0 ± 48.9	196.6 ± 46.7	203.9 ± 55.7	223.3 ± 54.3	191.0 ± 52.9
Ile	63.9 ± 24.8	63.6 ± 23.3	64.0 ± 26.0	53.4 ± 17.1	64.4 ± 21.0	47.5 ± 10.7	57.4 ± 20.8	58.0 ± 21.4	56.8 ± 20.1	61.0 ± 20.2	66.9 ± 20.0	53.7 ± 18.0	61.0 ± 25.9	72.0 ± 34.5	53.6 ± 13.7
Leu	132.8 ± 44.8	142.1 ± 53.9	125.1 ± 33.7	110.6 ± 27.8	127.9 ± 30.3	101.3 ± 21.1	120.0 ± 36.9	121.5 ± 37.7	118.6 ± 35.9	129.6 ± 36.6	138.6 ± 32.7	118.6 ± 38.0	119.2 ± 43.4	137.0 ± 54.8	107.3 ± 28.2
Lys	200.4 ± 45.0	210.7 ± 44.1	191.9 ± 44.0	181.7 ± 36.9	188.5 ± 27.5	178.0 ± 40.6	196.6 ± 51.5	204.6 ± 50.6	188.6 ± 51.3	205.3 ± 52.4	220.1 ± 55.2	187.1 ± 42.1	191.4 ± 45.5	198.8 ± 53.6	186.4 ± 38.4
Arg	80.6 ± 14.7	77.6 ± 14.2	83.1 ± 14.8	79.3 ± 15.4	79.1 ± 19.8	79.3 ± 12.4	76.5 ± 13.9	72.1 ± 16.1	80.9 ± 9.6	77.1 ± 16.4	71.3 ± 10.5	84.1 ± 19.3	84.9 ± 17.5	93.3 ± 13.5	79.3 ± 17.7
His	74.3 ± 17.1	63.1 ± 14.1	83.5 ± 13.6	67.5 ± 20.4	81.4 ± 22.8	60.0 ± 14.2	69.7 ± 16.1	74.5 ± 17.8	64.9 ± 12.5	73.5 ± 12.4	74.8 ± 13.1	71.8 ± 11.2	65.1 ± 15.8	65.6 ± 15.6	64.7 ± 15.9
Tyr	73.1 ± 19.7	70.5 ± 16.1	75.2 ± 22.0	68.2 ± 17.2	73.6 ± 17.1	65.3 ± 16.5	72.9 ± 18.8	76.3 ± 21.4	69.5 ± 15.0	72.6 ± 16.6	70.5 ± 16.4	75.2 ± 16.4	70.8 ± 18.1	72.1 ± 18.2	70.0 ± 18.1
Phe	64.8 ± 17.6	64.8 ± 19.8	64.7 ± 15.6	60.1 ± 10.4	63.8 ± 7.2	58.1 ± 11.3	65.3 ± 11.6	68.3 ± 12.0	62.3 ± 10.2	67.6 ± 15.2	64.9 ± 15.2	70.8 ± 14.4	71.7 ± 20.8	76.5 ± 21.0	68.5 ± 20.1
Trp	48.4 ± 10.7	47.4 ± 6.3	49.2 ± 13.2	44.5 ± 9.7	48.8 ± 13.8	42.1 ± 5.3	41.3 ± 8.1	42.6 ± 8.4	39.9 ± 7.6	45.0 ± 9.8	44.5 ± 9.1	45.5 ± 10.5	41.9 ± 8.5	44.1 ± 6.3	40.4 ± 9.4
Met	16.9 ± 5.0	17.5 ± 5.1	16.5 ± 4.8	14.5 ± 4.0	13.0 ± 1.5	15.2 ± 4.6	15.0 ± 4.8	15.5 ± 4.6	14.4 ± 4.9	14.6 ± 5.1	14.2 ± 4.9	15.2 ± 5.3	15.8 ± 6.0	14.9 ± 4.8	16.5 ± 6.6
Pro	178.0 ± 58.9	177.6 ± 65.6	178.3 ± 52.9	148.7 ± 53.8	168.8 ± 57.3	137.8 ± 48.6	164.8 ± 62.7	187.3 ± 75.4	142.3 ± 34.0	157.6 ± 33.3	169.6 ± 31.2	143.0 ± 29.8	167.9 ± 47.8	165.6 ± 61.4	169.5 ± 35.8
Gln	332.2 ± 101.5	328.6 ± 88.8	335.2 ± 110.8	324.3 ± 85.4	294.8 ± 59.6	340.2 ± 92.6	316.2 ± 84.9	297.1 ± 84.0	335.3 ± 81.5	326.1 ± 91.9	295.2 ± 54.2	364.0 ± 112.1	311.0 ± 67.7	312.5 ± 46.5	310.0 ± 78.8
Glu	75.7 ± 42.5	78.9 ± 42.7	73.1 ± 42.1	66.1 ± 30.1	70.0 ± 28.3	64.1 ± 30.9	89.3 ± 37.5	92.9 ± 36.9	85.8 ± 37.7	79.2 ± 31.6	83.1 ± 37.6	74.3 ± 21.2	61.5 ± 32.2	77.9 ± 24.4	50.5 ± 32.1
Asn	57.9 ± 19.2	50.9 ± 8.0	63.6 ± 23.4	52.6 ± 19.1	68.1 ± 22.8	44.2 ± 9.0	52.6 ± 15.5	53.5 ± 14.3	51.6 ± 16.5	58.5 ± 15.8	61.5 ± 16.8	54.8 ± 13.6	54.8 ± 14.3	58.8 ± 16.3	52.1 ± 12.0
Asp	21.4 ± 9.9	19.8 ± 7.8	22.6 ± 11.3	19.8 ± 10.4	18.4 ± 9.9	20.6 ± 10.6	25.1 ± 8.4	25.3 ± 9.4	25.0 ± 7.4	21.8 ± 8.6	17.7 ± 7.7	26.7 ± 6.8	17.7 ± 9.9	21.4 ± 9.3	15.2 ± 9.5
Uracil	4.1 ± 1.6	4.0 ± 1.4	4.2 ± 1.7	4.1 ± 1.9	3.4 ± 0.72	4.5 ± 2.2	4.3 ± 2.1	3.9 ± 2.0	4.6 ± 2.2	3.6 ± 1.6	3.8 ± 1.4	3.4 ± 1.7	4.4 ± 1.8	4.2 ± 2.0	4.6 ± 1.7
Guanosine	0.98 ± 0.92	0.89 ± 0.75	1.1 ± 1.0	0.75 ± 0.95	0.45 ± 0.62	0.91 ± 1.1	0.19 ± 0.33	0.15 ± 0.23	0.23 ± 0.40	0.34 ± 0.50	0.30 ± 0.54	0.38 ± 0.45	1.2 ± 1.2	1.1 ± 1.0	1.2 ± 1.3
Uridine	13.1 ± 9.5	16.3 ± 12.3	10.5 ± 5.2	12.1 ± 4.0	9.5 ± 2.2	13.6 ± 4.1	14.0 ± 7.1	14.2 ± 9.0	13.9 ± 4.4	12.6 ± 4.8	12.0 ± 4.9	13.3 ± 4.5	11.5 ± 4.3	12.3 ± 3.1	11.0 ± 4.8
Inosine	6.3 ± 6.4	4.9 ± 4.9	7.4 ± 7.2	4.4 ± 4.5	3.1 ± 2.3	5.1 ± 5.2	1.8 ± 1.9	0.86 ± 0.79	2.7 ± 2.1	2.8 ± 2.5	2.9 ± 2.6	2.7 ± 2.4	5.7 ± 5.6	6.8 ± 6.3	4.9 ± 4.9
Hypoxanthine	10.3 ± 6.7	8.7 ± 4.4	11.5 ± 7.8	8.8 ± 4.5	8.6 ± 3.2	8.9 ± 5.1	10.9 ± 3.4	10.2 ± 2.7	11.7 ± 3.7	9.6 ± 3.9	8.4 ± 3.8	11.1 ± 3.5	8.1 ± 3.8	10.0 ± 4.5	6.8 ± 2.6
Xanthine	3.4 ± 1.9	3.7 ± 2.0	3.1 ± 1.8	2.8 ± 1.6	3.2 ± 1.6	2.6 ± 1.5	4.5 ± 2.8	4.7 ± 3.6	4.4 ± 1.6	3.5 ± 1.6	3.1 ± 1.2	4.1 ± 1.9	3.4 ± 3.0	3.6 ± 2.5	3.3 ± 3.3
Uric acid	186.2 ± 74.4	193.3 ± 76.3	180.3 ± 72.2	179.1 ± 77.7	248.2 ± 73.1	141.9 ± 49.6	208.1 ± 88.2	224.2 ± 82.2	192.0 ± 91.0	196.4 ± 76.1	231.4 ± 73.7	153.6 ± 53.9	188.6 ± 86.5	234.4 ± 94.7	158.1 ± 64.5
β-Ala	4.4 ± 1.6	4.9 ± 1.1	4.0 ± 1.9	3.5 ± 3.2	3.0 ± 1.8	3.7 ± 3.8	5.2 ± 2.0	5.4 ± 2.1	5.0 ± 1.8	5.5 ± 5.7	6.5 ± 7.0	4.2 ± 3.2	5.0 ± 3.3	5.9 ± 3.8	4.4 ± 2.7
L-Carnitine	49.1 ± 9.4	49.2 ± 11.2	49.1 ± 7.7	50.8 ± 11.8	54.5 ± 14.9	48.8 ± 9.2	60.8 ± 12.2	68.5 ± 10.2	53.1 ± 8.6	55.4 ± 15.9	61.7 ± 16.9	47.8 ± 10.2	58.3 ± 18.6	61.8 ± 18.0	55.9 ± 18.7
N-Acetylaspartate	0.66 ± 0.28	0.68 ± 0.24	0.65 ± 0.31	0.64 ± 0.35	0.43 ± 0.31	0.75 ± 0.32	0.70 ± 0.43	0.66 ± 0.45	0.73 ± 0.40	0.64 ± 0.34	0.60 ± 0.37	0.69 ± 0.28	0.62 ± 0.37	0.72 ± 0.35	0.55 ± 0.36
γ-Glu-Arg	1.9 ± 1.2	2.1 ± 1.3	1.7 ± 1.1	1.9 ± 1.7	1.4 ± 0.50	2.2 ± 2.0	1.5 ± 1.5	1.6 ± 1.8	1.4 ± 0.94	1.8 ± 1.7	1.4 ± 1.6	2.4 ± 1.7	1.7 ± 1.6	2.0 ± 1.1	1.5 ± 1.8
γ-Glu-Citrulline	0.22 ± 0.31	0.17 ± 0.27	0.26 ± 0.33	0.30 ± 0.55	0.55 ± 0.42	0.16 ± 0.56	0.32 ± 0.64	0.24 ± 0.34	0.41 ± 0.83	0.17 ± 0.31	0.16 ± 0.32	0.18 ± 0.28	0.16 ± 0.25	0.21 ± 0.29	0.12 ± 0.20
γ-Glu-Gln	5.9 ± 3.2	5.4 ± 1.2	6.3 ± 4.1	5.9 ± 2.5	7.6 ± 2.3	5.1 ± 2.1	5.5 ± 1.8	4.9 ± 0.89	6.0 ± 2.2	5.9 ± 3.3	6.0 ± 2.8	5.7 ± 3.8	5.0 ± 2.4	4.4 ± 3.5	5.4 ± 1.1
γ-Glu-Glu	1.8 ± 1.0	1.7 ± 0.92	2.0 ± 1.1	1.5 ± 0.88	1.7 ± 0.87	1.4 ± 0.87	1.4 ± 0.80	1.3 ± 0.71	1.5 ± 0.88	1.3 ± 0.98	1.4 ± 0.82	1.3 ± 1.2	0.80 ± 0.96	1.1 ± 1.3	0.61 ± 0.62
γ-Glu-His	0.68 ± 1.2	0.85 ± 1.5	0.54 ± 1.0	0.41 ± 0.53	0.83 ± 0.58	0.19 ± 0.32	0.50 ± 0.67	0.63 ± 0.79	0.37 ± 0.47	0.55 ± 0.95	0.82 ± 1.1	0.23 ± 0.64	0.75 ± 1.4	0.41 ± 0.46	0.97 ± 1.7
γ-Glu-Leu	0.67 ± 0.52	0.71 ± 0.46	0.63 ± 0.56	0.67 ± 0.46	0.68 ± 0.13	0.67 ± 0.56	0.48 ± 0.46	0.56 ± 0.49	0.39 ± 0.41	0.57 ± 0.53	0.72 ± 0.52	0.38 ± 0.49	0.62 ± 0.51	0.80 ± 0.65	0.50 ± 0.33
γ-Glu-Lys	1.0 ± 1.5	1.3 ± 2.0	0.81 ± 0.65	1.2 ± 2.0	1.1 ± 0.92	1.3 ± 2.3	1.0 ± 1.1	1.4 ± 1.1	0.71 ± 0.89	0.87 ± 0.93	1.1 ± 0.94	0.59 ± 0.84	0.69 ± 0.84	0.80 ± 0.91	0.62 ± 0.79
γ-Glu-Phe	0.26 ± 0.41	0.21 ± 0.39	0.30 ± 0.42	0.33 ± 0.49	0.30 ± 0.26	0.35 ± 0.57	0.19 ± 0.28	0.26 ± 0.34	0.12 ± 0.19	0.19 ± 0.27	0.24 ± 0.30	0.14 ± 0.20	0.24 ± 0.37	0.23 ± 0.43	0.25 ± 0.32
γ-Glu-Ser	0.53 ± 0.74	0.42 ± 0.87	0.62 ± 0.61	0.77 ± 0.90	0.73 ± 0.88	0.80 ± 0.91	0.82 ± 1.1	1.1 ± 1.2	0.59 ± 0.82	0.62 ± 0.73	0.77 ± 0.64	0.43 ± 0.78	0.62 ± 1.2	1.2 ± 1.7	0.27 ± 0.47
γ-Glu-Thr	0.38 ± 0.62	0 ± 0	0.68 ± 0.69	0.15 ± 0.35	0.13 ± 0.32	0.15 ± 0.36	0.67 ± 0.90	0.68 ± 0.96	0.67 ± 0.84	0.30 ± 0.50	0.32 ± 0.50	0.27 ± 0.51	0.77 ± 1.1	0.96 ± 1.2	0.63 ± 1.1
γ-Glu-Tyr	0.46 ± 0.70	0.60 ± 0.80	0.35 ± 0.57	0.30 ± 0.58	0.40 ± 0.43	0.24 ± 0.64	0.41 ± 0.51	0.20 ± 0.27	0.62 ± 0.60	0.28 ± 0.46	0.34 ± 0.49	0.21 ± 0.40	0.34 ± 0.46	0.56 ± 0.53	0.19 ± 0.34
γ-Glu-Val	0.57 ± 0.69	0.86 ± 0.82	0.34 ± 0.44	0.47 ± 0.58	0.32 ± 0.24	0.55 ± 0.68	0.27 ± 0.33	0.30 ± 0.30	0.24 ± 0.35	0.58 ± 0.58	0.82 ± 0.54	0.30 ± 0.49	0.79 ± 0.63	0.95 ± 0.50	0.68 ± 0.68
Gly-Gly	3.1 ± 2.5	2.7 ± 2.4	3.4 ± 2.6	2.5 ± 2.5	1.8 ± 2.2	2.9 ± 2.6	5.5 ± 5.8	4.0 ± 2.5	6.9 ± 7.5	2.6 ± 2.5	1.4 ± 1.7	4.2 ± 2.5	2.3 ± 2.4	3.2 ± 2.4	1.7 ± 2.1
Gly-Leu	0.31 ± 0.45	0.33 ± 0.48	0.29 ± 0.42	0.13 ± 0.33	0.08 ± 0.13	0.15 ± 0.39	0.14 ± 0.23	0.21 ± 0.27	0.07 ± 0.17	0.19 ± 0.26	0.26 ± 0.30	0.11 ± 0.17	0.23 ± 0.48	0.19 ± 0.35	0.25 ± 0.54
Acetyl carnitine	6.4 ± 3.2	5.3 ± 1.6	7.3 ± 3.8	6.8 ± 2.1	7.0 ± 1.9	6.6 ± 2.1	7.7 ± 2.5	8.6 ± 1.6	6.8 ± 2.9	6.8 ± 3.2	8.5 ± 3.6	4.7 ± 0.61	7.3 ± 2.2	7.2 ± 3.1	7.4 ± 1.3
Cysteine-glutathione Disulfide	1.7 ± 1.3	1.2 ± 1.5	2.0 ± 0.97	1.5 ± 1.3	2.4 ± 0.77	1.1 ± 1.3	1.8 ± 1.2	1.5 ± 1.4	2.0 ± 0.85	1.7 ± 1.2	1.6 ± 0.91	1.8 ± 1.4	1.5 ± 1.3	0.79 ± 1.2	1.9 ± 1.1
S-Methyl-L-cysteine	4.9 ± 2.0	4.1 ± 0.98	5.6 ± 2.3	5.0 ± 2.1	6.4 ± 2.1	4.2 ± 1.8	5.1 ± 2.5	5.4 ± 1.8	4.9 ± 3.0	5.9 ± 4.1	6.4 ± 5.1	5.4 ± 2.2	5.2 ± 1.9	4.6 ± 1.6	5.6 ± 1.9