

Table S1: LC-MS/MS MRM transitions and compound specific parameters

Compound Name	Precursor Ion	Product Ion	Fragmentor (V)	Collision Energy (V)	Ret Time (min)	Polarity
¹³ C ₆ -Fructose (Internal std)	185.1^z	61.2	69	10	4.8	Negative
	185.1	92.1	69	10	4.8	Negative
5-Methyluridine	259.1	127	166	5	3.9	Positive
	259.1	110	166	37	3.9	Positive
Adenosine	268.1	136.1	100	17	2.2	Positive
	268.1	119.1	100	57	2.2	Positive
Arabinose	149	59.2	66	12	4.9	Negative
	149	89.1	66	4	4.9	Negative
Citric acid	191	111	81	10	13.2	Negative
	191	87	81	14	13.2	Negative
Cytidine	244.1	112.1	140	13	4.4	Positive
	244.1	95.1	140	53	4.4	Positive
Fructose	179.1	88.9	69	5	4.8	Negative
	179.1	59	69	13	4.8	Negative
Galactose	179.1	89.1	70	10	6.9	Negative
	179.1	59.2	70	14	6.9	Negative
Galacturonic acid	193	59.1	166	17	11.4	Negative
	193	113	166	9	11.4	Negative
Glucose	179.1	89.1	69	5	6.4	Negative
	179.1	59.1	69	9	6.4	Negative
Guanosine	284.1	152	80	13	4.9	Positive
	284.1	135	80	49	4.9	Positive
Inosine	267.1	135	144	22	3.5	Negative
	267.1	108	144	44	3.5	Negative
L-Alanine	90.1	44.2	40	13	9.2	Positive
	90.1	29.3	40	57	9.2	Positive
L-Arginine	175.1	70.1	100	24	14.5	Positive
	175.1	60.1	100	12	14.5	Positive
L-Aspartic acid	132	88.1	70	9	11.6	Negative
	132	115	70	9	11.6	Negative
L-Cysteine	122	76	65	13	9.3	Positive
	122	59.1	65	29	9.3	Positive
L-Glutamic acid	146	102.1	80	13	11.6	Negative
	146	128.1	80	9	11.6	Negative
L-Glutamine	147.1	84.1	80	17	10.2	Positive
	147.1	130.1	80	9	10.2	Positive
L-Glycine	76	30.1	35	9	10.0	Positive
	76	28.1	35	53	10.0	Positive
L-Isoleucine	132.1	86.1	75	25	6.2	Positive
	132.1	44.2	75	25	6.2	Positive
L-Leucine	132.1	86.1	75	9	5.9	Positive
	132.1	30.3	75	17	5.9	Positive
L-Lysine	147.1	84.1	75	17	14.8	Positive
	147.1	130.1	75	9	14.8	Positive
L-Methionine	150.1	56.2	80	17	6.6	Positive
	150.1	104.1	80	9	6.6	Positive
L-Phenylalanine	164.1	147	80	9	5.6	Negative
	164.1	103	80	15	5.6	Negative
L-Proline	116.1	70.1	75	37	7.6	Positive
	116.1	43.2	75	37	7.6	Positive
L-Serine	106.1	42.2	67	24	10.2	Positive
	106.1	88.1	67	8	10.2	Positive
L-Threonine	120.1	74.2	80	9	9.6	Positive
	120.1	56.2	80	17	9.6	Positive
L-Tryptophan	205.1	146	80	20	6.2	Positive
	205.1	188	80	8	6.2	Positive
L-Tyrosine	182.1	91.1	85	33	7.3	Positive
	182.1	136.1	85	33	7.3	Positive
L-Valine	118.1	72.2	60	9	7.3	Positive
	118.1	55.2	60	25	7.3	Positive
Malic acid	133	115	76	8	11.9	Negative
	133	71.1	76	14	11.9	Negative

Mannose	179.1	59.2	66	16	5.4	Negative
	179.1	89	66	4	5.4	Negative
Rhamnose	163.1	103	166	5	2.7	Negative
	163.1	119	166	5	2.7	Negative
Succinic acid	117	99	166	9	12.3	Negative
	117	73.1	166	9	12.3	Negative
Sucrose	341.1	89.1	140	21	9.2	Negative
	341.1	179	140	13	9.2	Negative
Tartronic Acid	119	57.1	65	10	11.8	Negative
	119	75.1	65	10	11.8	Negative
Uridine	243.1	200.1	100	9	2.1	Negative
	243.1	110.1	100	17	2.1	Negative
Vitamin B1	265.1	122.1	90	13	7.8	Positive
	265.1	81.1	90	37	7.8	Positive
Vitamin B2	377.2	243	150	21	2.6	Positive
	377.2	172.1	150	41	2.6	Positive
Vitamin B3	124	78.1	135	25	4.9	Positive
	124	53.2	135	37	4.9	Positive
Vitamin B5	220.1	90.1	84	10	6.6	Positive
	220.1	72.1	84	18	6.6	Positive
Vitamin B6	170.1	152	100	13	1.8	Positive
	170.1	134	100	21	1.8	Positive
Vitamin B7	245.1	227	100	13	6.6	Positive
	245.1	97	100	29	6.6	Positive
Vitamin B12	678.3	359.1	165	26	11	Positive
	678.3	635.8	165	22	11	Positive
Vitamin C	177	95	65	9	6.8	Positive
	177	141	65	5	6.8	Positive
Xylose	149	71.1	69	5	4.0	Negative
	149	59.1	69	13	4.0	Negative

^zTransitions used for quantification are bolded.