

<b>S. No.</b>	<b>Amino Acids (AA)</b>	24	L-Homocysteic acid
1	Glutaric acid	25	L-Kynurenine
2	Glycine	26	N-Acetyl-Aspartic acid
3	L-arginine	27	N-Acetyl-L-alanine
4	L-Aspartic acid	28	N-Acetyl-L-phenylalanine
5	L-Glutamine	29	N-Acetylneuraminic acid
6	L-Histidine	30	N-Methyl-L-lysine
7	L-Isoleucine	31	N-Methyl-L-proline
8	L-Leucine	<b>32</b>	NN-Dimethyl Arginine
9	L-Lysine	33	Norepinephrine
10	L-Methionine	34	Phenylacetyl-L-glutamine
11	L-Phenylalanine	35	Pyroglutamic acid
12	L-Proline	36	Sarcosine
13	L-Serine	37	Serotonin
14	L-Tryptophan	38	Stachydrine
15	L-Tyrosine	39	Taurine
		40	Urea
<b>S. No.</b>	<b>AA Metabolites and Conjugates</b>		
1	1-Methyl-L-histidine	<b>S. No.</b>	<b>Carnitine conjugates</b>
2	2-Methyl-N-(4-Methylphenyl)alanine	1	Acetyl-L-carnitine
3	3-Methylindole	2	Butyrylcarnitine
4	3-Methyl-L-histidine	3	Decanoyl-L-carnitine
5	4-Aminohippuric acid	4	Isovalerylcarnitine
6	5-Hydroxylysine	5	Lauroyl-L-carnitine
7	5-Hydroxymethyluracil	6	L-Glutarylcarnitine
8	Alpha-Aspartyl-lysine	7	Linoleoylcarnitine
9	Argininosuccinic acid	8	L-Propionylcarnitine
10	Betaine	9	Myristoyl-L-carnitine
11	Betonicine	10	Octanoylcarnitine
12	Carnitine	11	Oleoyl-L-carnitine
13	Creatine	12	Palmitoyl-L-carnitine
14	Creatinine	13	Stearoyl-L-carnitine
15	Dimethylglycine		
16	Dopamine	<b>S. No.</b>	<b>Krebs Cycle</b>
17	Epinephrine	1	Aconitate
18	Hippuric acid	2	Citrate
19	Homo-L-arginine	3	Ketoglutarate
20	Hydroxykynurenine	4	Malate
21	Indolelactic acid	5	Oxalo acetate
22	L-Alloisoleucine	6	Succinate
23	L-Citrulline		
24	L-Cysteine-glutathione disulfide		

25	L-Glutathione, reduced		
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**Table 1: Semi-quantitative analysis of endogenous molecules and their derivatives by Liquid Chromatography- Mass Spectrometry (LC-TripleTOF “or” LC-QTRAP).**

<b>S. No.</b>	<b>Energy Metabolism</b>	<b>S. No.</b>	<b>Vitamin &amp; Cofactor metabolism</b>
1	Adenosine triphosphate	1	Niacinamide
2	Glucose	2	Pyridoxine
3	Glucose-6-Phosphate	3	4-Pyridoxic acid
4	Ribose 5-phosphate	4	Ascorbic acid
5	Pyruvate	5	Dehydroascorbic acid
6	Lactic acid	6	Nicotinic acid
7	TCA cycle	7	Pyridoxal 5-phosphate
8	Fatty acylcarnitines	8	Pyridoxamine
9	Fatty acids	9	Pantothenic acid
1			
<b>S. No.</b>	<b>Nucleic acid Metabolism and conjugates</b>	<b>S. No.</b>	<b>Bile Acids</b>
1	1-Methyladenosine	1	Cholic acid (CA)
2	1-Methylguanine	2	Chenodeoxycholic acid
3	Adenosine	3	Glycoursodeoxycholic acid
4	Adenosine diphosphate	4	Glycocholic acid
5	Adenylosuccinic acid	5	Glycodeoxycholic acid
6	Cytidine 3'-monophosphate	6	Taurocholic acid
7	Cytidine 5'-diphosphate ethanolamine	7	3-Dehydroepiandrosterone sulfate
8	Cytidine triphosphate	8	(3.beta.)-Allopregnanolone sulfate
9	Guanine	9	5.alpha.-Androstan-3.beta.-ol-17-one sulfate
10	Guanosine	10	4-Androsten-17.beta.-ol-3-one sulfate
11	Guanosine diphosphate	11	(5.alpha.)-2'H-Androst-2-eno3,2-cpyrazol-17-one
12	Hypoxanthine		
13	Inosine	<b>S. No.</b>	<b>Ribonucleotides</b>
14	L-Cysteine-glutathione disulfide	1	dATP
15	Uric acid	2	dTTP
16	Uridine	3	dCTP
17	Xanthine	4	dGTP
		5	dADP
		6	dTDP
<b>S. No.</b>	<b>Carbohydrates</b>	7	dCDP
1	Xylulose	8	dGDP
2	Glucose	9	dAMP
3	Glucose-6-phosphate	10	dTMP
4	Sorbose		

5	Glutaconic acid	11	dCMP
6	Ribose	12	dGMP
7	Threonic acid		

<b>S. No.</b>	<b>Sulfo sterols and oxysterols</b>
1	Cholesterol
2	4-hydroxycholesterol
3	7-hydroxycholesterol
4	24-hydroxycholesterol
5	25-hydroxycholesterol
6	27-hydroxycholesterol
7	Dihydroxycholesterol
8	Cholesterol-sulfate
9	4-hydroxycholesterol-sulfate
10	7-hydroxycholesterol-sulfate
11	24-hydroxycholesterol-sulfate
12	25-hydroxycholesterol-sulfate
13	27-hydroxycholesterol-sulfate
14	Pregnenolone sulfate
15	Dehydroepiandrosterone sulfate