

Table 1. Potential metabolites identified in urine of HI rats.

No	Retention time	Measured [M+H] ⁺	Theoretical [M+H] ⁺	Error (ppm)	Elemental composition	Identified Metabolites	Trend
1	0.54	132.0761	132.0780	-1.9	C ₅ H ₉ NO ₃	4-Hydroxy-L-proline	↑
2	0.90	166.0718	166.0729	-1.1	C ₆ H ₇ N ₅ O	N-Methylguanine	↑
3	0.99	301.1505	301.1512	-0.7	C ₁₂ H ₂₀ N ₄ O ₅	—	↓
4	1.09	271.1395	271.1393	0.2	C ₁₀ H ₂₂ O ₈	1,5-bis(2-hydroxyethoxy)-3-(hydroxymethyl)pentane-2,3,4-triol	↓
5	1.14	267.1336	267.1340	-0.4	C ₁₄ H ₁₈ O ₅	2-((Hexyloxy)carbonyloxy)benzoic acid	↓
6	1.23	229.1534	229.1552	-1.8	C ₁₁ H ₂₀ N ₂ O ₃	L-leucyl-L-proline	↑
7	1.37	285.0748	285.0763	-1.5	C ₁₆ H ₁₂ O ₅	—	↓
8	2.04	190.0492	190.0504	-1.2	C ₁₀ H ₇ NO ₃	Kynurenic acid	↑
9	2.59	237.1234	237.1239	-0.5	C ₁₂ H ₁₆ N ₂ O ₃	Alanyl-dl-phenylalanine	↓
10	2.59	279.1334	279.1345	-1.1	C ₁₄ H ₁₈ N ₂ O ₄	alpha-Ribazole	↓
11	2.63	162.0546	162.0555	-0.9	C ₉ H ₇ NO ₂	4,6-Dihydroxy quinoline	↓
12	3.30	239.1379	239.1396	-1.7	C ₁₂ H ₁₈ N ₂ O ₃	2-dimethylaminoethyl N-(2-methoxyphenyl)carbamate	↓
13	5.03	355.2628	355.2637	-0.9	C ₂₄ H ₃₄ O ₂	2-naphthyl tetradecanoate	↑
14	5.39	466.3155	466.3169	-1.4	C ₂₆ H ₄₃ NO ₆	Glycocholic acid	↑
15	5.56	353.2467	353.2481	-1.4	C ₂₄ H ₃₂ O ₂	phenyl octadeca-10,12-diynoate	↑
16	6.13	373.2735	373.2743	-0.8	C ₂₄ H ₃₆ O ₃	1-hexylundeca-3,9-dienyl-2-hydroxybenzoate	↑
17	6.16	274.2738	274.2746	-0.8	C ₁₆ H ₃₁ NO ₂	—	↓
18	6.14	355.2630	355.2637	-0.7	C ₂₄ H ₃₄ O ₂	1-(2-hydroxy-1-naphthyl)tetradecan-1-one	↑
19	6.21	318.2996	318.3008	-1.2	C ₁₆ H ₃₁ NO ₅	—	↓
20	6.97	251.1633	251.1647	-1.4	C ₁₅ H ₂₂ O ₃	—	↑

Note: ↑ , content increased; ↓ , content decreased;