Table S9: Qualitative and quantitative analysis of plasma metabolites profiling of the con and inu groups.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Metabolites | Concentration (μg/ml) | | KEGG | HMDB |
| Control | Inulin |
| 15-Anhydrosorbitol | 2.76±0.78 | 3.38±0.92 | C07326 | HMDB0002712 |
| 1-Propylamine | 0.39±0.04 | 0.4±0.02 | NA | HMDB0034006 |
| 2-Hydroxybutyricacid | 0.16±0.03 | 0.13±0.03 | C05984 | HMDB0000008 |
| 2-Hydroxypyridine | 11.71±1.03 | 11.37±1.3 | C02502 | HMDB0013751 |
| 2-Hydroxyvalericacid | 0.68±0.12 | 0.7±0.12 | NA | HMDB0001863 |
| 3-Hydroxybutyricacid | 0.1±0.01 | 0.08±0.01 | C05984 | HMDB0000008 |
| 3-Hydroxyglutaricacid | 0.63±0.05 | 0.63±0.1 | NA | HMDB0000428 |
| 4-Deoxyerythronicacid | 0.06±0.01 | 0.06±0.02 | NA | HMDB0000498 |
| 4-Deoxythreonicacid | 0.06±0.01 | 0.06±0.01 | NA | HMDB0002453 |
| 4-Hydroxybutyricacid | 1.19±0.17 | 1.09±0.18 | NA | HMDB0001119 |
| 4-Hydroxyproline | 20.54±1.45 | 19.56±0.78 | C01157 | HMDB0000725 |
| 5-Aminopentanoicacid | 1.43±0.45 | 1.16±0.56 | C00431 | HMDB0003355 |
| Alpha-Tocopherol | 0.41±0.13 | 0.43±0.24 | C00141 | HMDB0000019 |
| Aminomalonic acid | 29.68±5.74 | 26.15±5.26 | C02477 | HMDB0001893 |
| Arachidic acid | 0.06±0.01 | 0.06±0.01 | C01892 | HMDB0029611 |
| Arachidonic acid | 0.22±0.05 | 0.25±0.02 | C00064 | HMDB0000641 |
| Aspartylglycosamine | 1.25±0.33 | 1.64±0.69 | C11695 | HMDB0004080 |
| Behenicacid | 0.04±0.01 | 0.03±0.01 | C04540 | HMDB0000489 |
| Beta-Alanine | 1.69±0.29 | 2.06±0.16 | C00099 | HMDB0000056 |
| Beta-Sitosterol | 0.05±0.01 | 0.05±0.01 | C00099 | HMDB0000056 |
| Campesterol | 0.12±0.03 | 0.12±0.04 | C01753 | HMDB0000852 |
| Caproicacid | 0.04±0.01 | 0.05±0 | C01789 | HMDB0002869 |
| Hyocholic acid | 0.5±0.22 | 1.26±0.87 | NA | HMDB0000760 |
| Cholesterol | 17.47±2.82 | 18.31±3.96 | C00187 | HMDB0000067 |
| Citraconicacid | 0.19±0.18 | 0.13±0.06 | C00417 | HMDB0000072 |
| Citricacid | 6.92±1.64 | 6.32±0.86 | C00158 | HMDB0000094 |
| Creatinine | 16.85±4.7 | 11.4±0.91 | C00791 | HMDB0000562 |
| D-Arabitol | 0.65±0.11 | 0.64±0.08 | C01904 | HMDB0000568 |
| Dehydroascorbicacid | 0.87±0.1 | 0.93±0.15 | C00425 | HMDB0001264 |
| D-Erythro-imidazole-glycerol-phosphate | 1.61±0.57 | 1.83±0.37 | C04666 | HMDB0012208 |
| D-Fructose | 0.7±0.1 | 0.79±0.11 | C02336 | HMDB0000660 |
| D-Glucose | 96.83±5.2 | 98.69±6.46 | C00031 | HMDB0000122 |
| D-Glucuronicacid | 1.11±0.11 | 1.13±0.13 | C00191 | HMDB0000127 |
| Dichlorvos | 1.28±0.32 | 1.54±0.2 | C14430 | HMDB0033956 |
| D-Mannose | 9.13±1.29 | 9.26±0.32 | C00159 | HMDB0000169 |
| D-Pinitol | 0.66±0.2 | 0.76±0.28 | C03844 | HMDB0034219 |
| D-Ribose | 0.29±0.02 | 0.27±0.02 | C00121 | HMDB0000283 |
| D-Threitol | 1.03±0.15 | 1.08±0.27 | C16884 | HMDB0004136 |
| D-Xylitol | 0.63±0.1 | 0.61±0.06 | C00379 | HMDB0002917 |
| D-Xylulose | 0.12±0.01 | 0.13±0.02 | C00310 | HMDB0001644 |
| Elaidic acid | 0.42±0.1 | 0.36±0.05 | C00544 | HMDB0000130 |
| Erythritol | 0.23±0.04 | 0.19±0.03 | C00503 | HMDB0002994 |
| Erythronic acid | 0.56±0.08 | 0.49±0.05 | NA | HMDB0000613 |
| Ethanolamine | 1.82±0.44 | 1.99±0.43 | C00189 | HMDB0000149 |
| Fructose6-phosphate | 0.03±0.02 | 0.04±0.03 | C00085 | HMDB0000124 |
| Fumaric acid | 0.75±0.09 | 0.74±0.1 | C00122 | HMDB0000134 |
| Galactonic acid | 0.09±0.02 | 0.08±0.01 | C00880 | HMDB0000565 |
| Galacturonic acid | 0.2±0.01 | 0.21±0.02 | C08348 | HMDB0002545 |
| Gamma-Amino butyric acid | 0.06±0.02 | 0.06±0.01 | C00334 | HMDB0000112 |
| Gluconic acid | 0.68±0.15 | 0.42±0.05 | C00257 | HMDB0000625 |
| Glucose6-phosphate | 0.04±0.04 | 0.05±0.06 | C00668 | HMDB0001401 |
| Glycericacid | 0.29±0.06 | 0.28±0.03 | C00258 | HMDB0000139 |
| Glycerol | 5.67±2.34 | 4.73±1.53 | C00116 | HMDB0000131 |
| Glycine | 31.16±5.15 | 29.08±2.24 | C00037 | HMDB0000123 |
| Glycolic acid | 0.2±0.08 | 0.17±0.02 | C00160 | HMDB0000115 |
| Glyoxylic acid | 0.18±0.02 | 0.17±0.03 | C0048 | HMDB0000119 |
| Heptadecanoic acid | 0.36±0.07 | 0.46±0.05 | NA | HMDB0002259 |
| Heptadecenoic acid | 0.03±0.01 | 0.03±0.01 | NA | HMDB0031046 |
| Hydroxylamine | 7.28±1.79 | 8.27±2.07 | C00192 | HMDB0003338 |
| Hydroxyphenyllactic acid | 3.4±0.46 | 3.63±0.49 | C00642 | HMDB0000020 |
| Hydroxypropionic acid | 0.4±0.14 | 0.45±0.12 | C01013 | HMDB0000700 |
| Hypotaurine | 2.61±0.88 | 2.45±0.69 | C00519 | HMDB0000965 |
| Indole-3-propionicacid | 0.41±0.11 | 0.75±0.18 | NA | HMDB0002302 |
| Indoleglycerolphosphate | 0.07±0.02 | 0.08±0.02 | C03506 | METPA0401 |
| Indolelactic acid | 0.34±0.08 | 0.42±0.14 | C02043 | HMDB0000671 |
| Inosine | 0.26±0.19 | 0.21±0.12 | C00294 | HMDB0000195 |
| Itaconic acid | 0.21±0.18 | 0.16±0.06 | C02341 | HMDB0000958 |
| Ketoleucine | 1.14±0.17 | 1.11±0.21 | C00233 | HMDB0000695 |
| Ketovaleric acid | 1.04±0.15 | 1.03±0.17 | NA | HMDB0000720 |
| L-Alanine | 79.95±5.44 | 78.66±3.21 | C00041 | HMDB0000161 |
| L-Alpha-aminobutyric acid | 0.66±0.28 | 0.74±0.28 | C02356 | HMDB0000452 |
| Lanosterin | 0.04±0.01 | 0.05±0.02 | C01724 | HMDB0001251 |
| L-Aspartic acid | 1.46±0.64 | 1.66±0.55 | C00049 | HMDB0000191 |
| L-Fucose | 0.1±0.01 | 0.11±0.01 | C01019 | HMDB0000174 |
| L-Glutamic acid | 12.66±4.21 | 12.91±1.27 | C00025 | HMDB0000148 |
| Linoleic acid | 1.92±0.6 | 2.41±0.57 | NA | HMDB0000673 |
| L-Isoleucine | 35.08±0.69 | 32.4±1.91 | C00407 | HMDB0000172 |
| L-Lacticacid | 24.21±4.76 | 25.7±10.29 | C00186 | HMDB0000190 |
| L-Leucine | 56.79±0.81 | 54.31±1.56 | C00123 | HMDB0000687 |
| L-Lysine | 2.38±0.6 | 3.72±0.38 | C00047 | HMDB0000182 |
| L-Methionine | 1.3±0.35 | 1.43±0.09 | C00073 | HMDB0000696 |
| L-Norleucine | 1.76±0.22 | 1.52±0.14 | C01933 | HMDB0001645 |
| L-Phenylalanine | 6.22±1.53 | 7.87±1.69 | C00079 | HMDB0000159 |
| L-Proline | 145.4±11.27 | 158.15±3 | C00148 | HMDB0000162 |
| L-Serine | 29.9±4.26 | 33.05±3.58 | C00065 | HMDB0000187 |
| L-Threonine | 11.76±1.23 | 13.66±3.13 | C00188 | HMDB0000167 |
| L-Tryptophan | 5.72±0.45 | 4.57±0.74 | C00078 | HMDB0000929 |
| L-Tyrosine | 5.4±1.39 | 5.57±0.78 | C00082 | HMDB0000158 |
| L-Valine | 63.7±2.46 | 59.68±2.89 | C00183 | HMDB0000883 |
| Palmitoylglycerol | 0.17±0.03 | 0.21±0.07 | C00146 | HMDB0007853 |
| Stearoylglycerol | 0.16±0.01 | 0.17±0.03 | C00146 | HMDB0011133 |
| Oleoylglycerol | 0.06±0.02 | 0.08±0.06 | C00146 | HMDB0007856 |
| Malic acid | 0.95±0.19 | 0.92±0.18 | C00711 | HMDB0000744 |
| Methylcysteine | 0.81±0.16 | 0.75±0.15 | NA | HMDB0002108 |
| Myo-Inositol | 13.88±1.72 | 13.23±2.6 | C00137 | HMDB0000211 |
| Myo-inositol1-phosphate | 1.03±0.15 | 1.03±0.15 | C04006 | HMDB0000213 |
| Myristic acid | 0.17±0.01 | 0.17±0.03 | C01327 | HMDB0002306 |
| N-Acetylgalactosamine | 0.13±0.01 | 0.12±0.01 | C01074 | HMDB0000212 |
| Octadecanol | 0.12±0.01 | 0.11±0.01 | C01924 | HMDB0002350 |
| Oleic acid | 2.14±0.21 | 2.15±0.33 | NA | HMDB0002088 |
| O-Phosphoethanolamine | 0.27±0.06 | 0.33±0.09 | C05852 | HMDB0000224 |
| Ornithine | 2.98±0.5 | 4.14±0.68 | C00346 | HMDB0000224 |
| Ortho-Hydroxyphenylacetic acid | 0.21±0.06 | 0.29±0.1 | C00077 | HMDB0000214 |
| Oxalacetic acid | 0.19±0.06 | 0.2±0.07 | C05852 | HMDB0000669 |
| Oxoglutaric acid | 1.13±0.06 | 1.15±0.22 | C00036 | HMDB0000223 |
| Palmitelaidic acid | 0.05±0.01 | 0.04±0.01 | C00026 | HMDB0000208 |
| Palmitic acid | 8.28±1.04 | 8.86±0.99 | NA | HMDB0000220 |
| Palmitoleic acid | 0.07±0.02 | 0.05±0.01 | NA | HMDB0003229 |
| Pantothenic acid | 0.08±0.01 | 0.07±0.01 | NA | HMDB0000210 |
| Lyxose | 0.39±0.09 | 0.37±0.08 | C08348 | HMDB0003402 |
| Pelargonic acid | 0.06±0.01 | 0.06±0.02 | NA | HMDB0000847 |
| Pentadecanoic acid | 0.13±0.01 | 0.14±0.03 | NA | HMDB0000826 |
| Phosphate | 133.23±15.86 | 113.47±13.49 | C00009 | HMDB0001429 |
| Pipecolic acid | 1.06±0.26 | 1.29±0.26 | C00408 | HMDB0000070 |
| Putrescine | 0.31±0.04 | 0.29±0.07 | C00134 | HMDB0001414 |
| Pyroglutamic acid | 36.96±1.48 | 34.4±3.55 | C01879 | HMDB0000267 |
| Pyrophosphate | 0.25±0.11 | 0.26±0.09 | C00013 | HMDB0000250 |
| Pyrrole-2-carboxylic acid | 0.22±0.02 | 0.23±0.03 | C05942 | HMDB0004230 |
| Pyruvic acid | 13.15±1.73 | 12.51±2.78 | C00022 | HMDB0000243 |
| Ribitol | 0.15±0.02 | 0.17±0.02 | C00474 | HMDB0000508 |
| Sarcosine | 0.4±0.15 | 0.53±0.27 | C00213 | HMDB0000271 |
| Serotonin | 0.21±0.1 | 0.21±0.07 | C00780 | HMDB0000259 |
| Sorbitol | 0.64±0.16 | 1.56±0.56 | C00794 | HMDB0000247 |
| Stearic acid | 8.23±0.89 | 8.87±0.52 | C00506 | HMDB0002757 |
| Succinic acid | 0.41±0.13 | 0.44±0.12 | C00042 | HMDB0000254 |
| Sucrose | 0.21±0.05 | 0.32±0.13 | C00089 | HMDB0000258 |
| Threonic acid | 0.73±0.13 | 0.55±0.05 | C01620 | HMDB0000943 |
| Uracil | 0.52±0.3 | 0.41±0.09 | C00106 | HMDB0000300 |
| Ursodeoxycholic acid | 1.94±0.84 | 5.01±3.22 | C07880 | HMDB0000946 |