|  |  |  |  |
| --- | --- | --- | --- |
| **Metabolites** | **VIP value** | ***P* value** | **Fold Change**  |
| Lactitol | 2.10  | 0.0000  | 0.00  |
| Glutaric acid | 2.04  | 0.0000  | 0.21  |
| Azelaic acid | 2.03  | 0.0000  | 0.32  |
| Oxamic acid | 2.00  | 0.0000  | 0.66  |
| 6-hydroxy caproic acid dimer | 2.00  | 0.0000  | 0.33  |
| Biphenyl | 1.99  | 0.0000  | 2.13  |
| Adipic acid | 1.98  | 0.0000  | 0.32  |
| Quinolinic acid | 1.96  | 0.0000  | 2.20  |
| Oleic acid | 1.93  | 0.0000  | 0.48  |
| Tartaric acid | 1.90  | 0.0001  | 0.35  |
| Elaidic acid | 1.85  | 0.0002  | 0.54  |
| Histidine | 1.81  | 0.0004  | 0.51  |
| Taurine | 1.79  | 0.0004  | 1.42  |
| Phloroglucinol | 1.78  | 0.0009  | 2.24  |
| Cyclohexylsulfamic acid | 1.75  | 0.0009  | 0.06  |
| Nicotinoylglycine | 1.73  | 0.0012  | 1.32  |
| 1-methylhydantoin | 1.74  | 0.0013  | 1.39  |
| 5-methoxytryptamine | 1.73  | 0.0014  | 1.35  |
| 1-hexadecanol | 1.72  | 0.0015  | 1.79  |
| Cis-gondoic acid | 1.72  | 0.0016  | 0.54  |
| D-talose | 1.71  | 0.0018  | 1.95  |
| 2-Amino-3-methyl-1-butanol | 1.70  | 0.0020  | 1.33  |
| Gallic acid | 1.67  | 0.0022  | 1.23  |
| 3-indoleacetonitrile | 1.67  | 0.0024  | 0.00  |
| Glycerol | 1.68  | 0.0024  | 0.82  |
| O-phosphorylethanolamine | 1.64  | 0.0029  | 1.76  |
| Erythrose | 1.65  | 0.0029  | 1.31  |
| Glucose-6-phosphate | 1.62  | 0.0034  | 0.37  |
| Pimelic acid | 1.62  | 0.0037  | 0.14  |
| Methionine sulfoxide | 1.61  | 0.0038  | 5.28  |
| Glycolic acid | 1.62  | 0.0039  | 0.84  |
| Oxalic acid | 1.61  | 0.0046  | 4.22  |
| Alanine | 1.60  | 0.0048  | 0.77  |
| 2'-Deoxycytidine 5'-triphosphate degr prod | 1.58  | 0.0055  | 1.26  |
| Pyruvic acid | 1.60  | 0.0055  | 1.45  |
| Mevalonic acid lactone | 1.58  | 0.0057  | 1.38  |
| Analyte 138 | 1.56  | 0.0060  | 1.88  |
| (+-)-Dihydrocarveol | 1.57  | 0.0067  | 0.44  |
| Palmitic acid | 1.55  | 0.0069  | 0.72  |
| Glucosaminic acid | 1.57  | 0.0071  | 0.22  |
| 2,3-dihydroxypyridine | 1.53  | 0.0071  | 1.53  |
| O-phosphonothreonine | 1.56  | 0.0074  | 0.59  |
| P-benzoquinone | 1.54  | 0.0082  | 1.27  |
| Hydroxylamine | 1.52  | 0.0086  | 1.28  |
| 3-hydroxynorvaline | 1.50  | 0.0100  | 1.31  |
| Methyl hexadecanoate | 1.50  | 0.0107  | 0.00  |
| Menthone | 1.47  | 0.0109  | 1.55  |
| 3-aminopropionitrile | 1.50  | 0.0111  | 1.26  |
| 4-hydroxybutyrate | 1.51  | 0.0115  | 0.00  |
| Hypoxanthine | 1.50  | 0.0122  | 0.24  |
| Prostaglandin E2 | 1.46  | 0.0133  | 1.25  |
| Terephthalic acid | 1.46  | 0.0139  | / |
| 3-(1-Pyrazolyl)-L-alanine | 1.47  | 0.0147  | 0.14  |
| D-(glycerol 1-phosphate) | 1.43  | 0.0156  | 1.31  |
| Tryptophan | 1.42  | 0.0160  | 0.65  |
| Phthalic acid | 1.46  | 0.0160  | 0.00  |
| Adenosine | 1.43  | 0.0171  | 1.63  |
| Thymidine 5'-monophosphate degr prod | 1.42  | 0.0172  | 0.23  |
| Thymidine | 1.43  | 0.0173  | 0.16  |
| Cytidine-monophosphate degr prod | 1.41  | 0.0192  | / |
| 2-hydroxyquinoline | 1.41  | 0.0198  | 0.48  |
| Dibenzofuran | 1.40  | 0.0202  | 1.20  |
| Diglycerol | 1.38  | 0.0202  | 0.46  |
| 3-hydroxybutyric acid | 1.40  | 0.0203  | 0.05  |
| Hydrocinnamic acid | 1.39  | 0.0214  | 1.25  |
| Palmitoleic acid | 1.38  | 0.0215  | 0.55  |
| Spermidine | 1.37  | 0.0247  | 1.65  |
| Thymine | 1.37  | 0.0252  | 1.40  |
| 2-aminophenol | 1.38  | 0.0254  | 0.20  |
| Scopoletin | 1.35  | 0.0258  | 1.23  |
| Pentadecanoic acid | 1.31  | 0.0274  | 0.77  |
| Phenyl beta-D-glucopyranoside | 1.35  | 0.0288  | 0.00  |
| Alpha-Tocopherol | 1.32  | 0.0312  | 1.40  |
| 5-Hydroxyindole-2-carboxylic acid | 1.34  | 0.0312  | 0.79  |
| 2-hydroxypyridine | 1.29  | 0.0323  | 1.22  |
| Beta-Glycerophosphoric acid | 1.29  | 0.0324  | 1.31  |
| Guaiacol | 1.33  | 0.0326  | 0.60  |
| Benzoic acid | 1.31  | 0.0334  | 1.18  |
| Cytidine-monophosphate | 1.31  | 0.0338  | 1.24  |
| Beta-hydroxypyruvate | 1.28  | 0.0350  | 1.16  |
| Mono(2-ethylhexyl)phthalate | 1.30  | 0.0366  | 1.24  |
| Carbazole | 1.25  | 0.0367  | 2.14  |
| L-allothreonine | 1.26  | 0.0390  | 1.98  |
| N-Methyl-L-glutamic acid | 1.25  | 0.0395  | 1.26  |
| 4-Hydroxycyclohexanecarboxylic acid | 1.29  | 0.0396  | 3.26  |
| 4-Vinylphenol dimer | 1.24  | 0.0406  | 1.50  |
| Acetylsalicylic acid | 1.24  | 0.0449  | 0.17  |
| 1-hydroxyanthraquinone | 1.22  | 0.0473  | 1.22  |
| Hippuric acid | 1.24  | 0.0476  | 3.16  |
| Creatine degr | 1.21  | 0.0491  | 1.25  |