Supplementary TABLE S1. Ingredients and chemical composition of the experimental diet (% of DM).

|  |  |
| --- | --- |
| Ingredients | Chemical Composition (% DM) |
| Corn  | 35.00 | Dry matter | 90.20 |
| Soybean meal  | 13.00 | Crude protein | 14.27 |
| Corn germ meal | 6.00 | Neutral detergent fiber | 28.17 |
| Corn bran | 10.00 | Acid detergent fiber | 18.35 |
| Peanut hull | 23.00 | Starch | 25.87 |
| Bentonite | 4.00 | Ash | 11.30 |
| Sucrose | 4.00 | Ether extract | 3.94 |
| Premix1 | 5.00 | Calcium | 0.61 |
| Total | 100.00  |  |  |

1Nutrient content of premix (per kg): Ca2+ = 110 mg, Cu2+=140 mg, Zn2+=930 mg, Mn2+=600 mg, Co2+ =13 mg, I- = 20 mg, Se4+=13 mg, Vitamin A = 340 KIU, Vitamin D3 = 120 KIU, Vitamin E = 1700 IU.

Supplementary TABLE S2. Effects of 5-HTP supplementation on dominant bacterial phylum and genus composition at different fermentation times (%) *in vitro*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Time | Control  | 5-HTP doses (mg/kg DM) | SEM | *P*-value |
| 0 | 2 | 4 | 8 | 10 | Dose | Time | D×T |
| Phylum  |  |  |  |  |  |  |
| Bacteroidetes | 0h | 57.29 | 57.27 | 57.28 | 57.30 | 57.26 | 1.70 | <0.01 | <0.01 | <0.01 |
| 12h | 67.47a | 76.02a | 77.70a | 51.21b | 47.67b | 3.24 |
| 48h | 23.62ab | 30.67a | 27.91ab | 20.14b | 19.29b | 1.46 |
| Firmicutes | 0h | 33.45 | 33.46 | 33.46 | 33.45 | 33.44 | 1.55 | <0.01 | <0.01 | <0.05 |
| 12h | 12.82 | 17.28 | 15.25 | 13.52 | 13.87 | 0.77 |
| 48h | 39.76a | 44.41a | 49.55a | 38.26ab | 27.55b | 2.27 |
| Proteobacteria | 0h | 2.89 | 2.88 | 2.88 | 2.89 | 2.89 | 0.21 | <0.01 | <0.01 | 0.64 |
| 12h | 15.38b | 0.98c | 1.56c | 32.16a | 35.49a | 3.70 |
| 48h | 27.08bc | 13.02cd | 7.87d | 32.52ab | 47.38a | 3.90 |
| Actinobacteria | 0h | 2.88 | 2.87 | 2.85 | 2.88 | 2.88 | 0.28 | <0.01 | 0.35 | 0.25 |
| 12h | 0.56 | 0.83 | 0.44 | 0.60 | 0.69 | 0.10 |
| 48h | 3.93 | 4.10 | 6.51 | 6.27 | 2.94 | 0.65 |
| Verrucomicrobia | 0h | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | <0.01 | <0.01 | <0.05 |
| 12h | 0.96ab | 1.49a | 1.46a | 0.66b | 0.68b | 0.13 |
| 48h | 2.07ab | 3.67a | 3.65a | 0.57b | 0.88b | 0.37 |
| Genus  |
| *Prevotella* | 0h | 44.75 | 44.65 | 44.72 | 44.75 | 44.75 | 1.53 | <0.01 | <0.01 | <0.05 |
| 12h | 46.77a | 50.33a | 51.06a | 37.03b | 34.26b | 1.94 |
| 48h | 15.24a | 17.27a | 15.02a | 9.55b | 12.46ab | 0.87 |
| *Succinivibrio* | 0h | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 0.19 | <0.01 | <0.01 | 0.65 |
| 12h | 15.13b | 0.63c | 1.18c | 31.72a | 35.14a | 3.69 |
| 48h | 24.17b | 2.66c | 2.76c | 30.92ab | 45.88a | 4.41 |
| *Selenomonas* | 0h | 1.07 | 1.07 | 1.06 | 1.07 | 1.08 | 0.05 | <0.01 | 0.47 | 0.29 |
| 12h | 0.58b | 0.70b | 0.80b | 0.86b | 1.48a | 0.10 |
| 48h | 16.73 | 14.78 | 17.64 | 12.30 | 9.88 | 1.43 |
| *Succiniclasticum* | 0h | 2.06 | 2.08 | 2.07 | 2.07 | 2.07 | 0.13 | <0.01 | <0.01 | <0.01 |
| 12h | 1.03b | 1.77a | 1.54a | 0.83b | 0.76b | 0.10 |
| 48h | 3.76ab | 5.74a | 5.22a | 1.22c | 2.13bc | 0.50 |
| *Sharpea* | 0h | 5.76 | 5.75 | 5.74 | 5.76 | 5.74 | 0.83 | <0.01 | <0.01 | <0.01 |
| 12h | 0.97 | 0.82 | 0.77 | 2.00 | 1.55 | 0.22 |
| 48h | 0.88b | 0.43b | 0.54b | 5.56a | 1.84b | 0.51 |

a,b Different superscripts in the same raw implies their mean values are significantly different (*P* ≤ 0.05).

Supplementary TABLE S3. Differential metabolites information under 5-HTP supplementation at different fermentation times *in vitro*.

|  |  |  |  |
| --- | --- | --- | --- |
| Metabolites | VIP | *P-*value | FC |
| A12.0T vs A12.2T (7) |
| 4-Hydroxyphenylacetic acid | 2.45 | 0.029 | 0.62 |
| Lignoceric acid | 2.51 | 0.038 | 1.49 |
| 3-Hydroxybutyric acid | 2.03 | 0.038 | 0.78 |
| Hexadecane | 2.89 | 0.008 | 1.56 |
| D-Talose 1 | 1.78 | 0.029 | 0.58 |
| 4',7-Dihyroxyflavanone 1 | 2.04 | 0.041 | 1.32 |
| 2-Deoxyuridine | 2.41 | 0.011 | 0.75 |
| A12.0T vs A12.4T (32) |
| Octanal 2 | 2.41 | 0.000 | 0.34 |
| Cholesterol-2,2,3,4,4,6-d6 | 2.04 | 0.004 | 3.08 |
| Allylmalonic acid | 1.89 | 0.020 | 1.21 |
| 3-Hydroxypyruvate | 2.38 | 0.000 | 0.38 |
| 4-Hydroxyphenylacetic acid | 1.93 | 0.019 | 0.60 |
| Methylmalonic acid | 2.45 | 0.000 | 0.33 |
| N,N-dimethylarginine | 2.38 | 0.000 | 2.14 |
| Palmitic acid | 1.75 | 0.040 | 1.43 |
| Cytidine-monophosphate 1 | 1.87 | 0.012 | 2.02 |
| 2-Keto-isovaleric acid 1 | 1.97 | 0.002 | 0.74 |
| Thioctamide 1 | 1.96 | 0.004 | 1.62 |
| Hexadecane | 2.15 | 0.005 | 1.97 |
| Panthenol 2 | 2.10 | 0.001 | 2.11 |
| 3-Hexenedioic acid | 1.87 | 0.010 | 1.49 |
| 2-Ketocaproic acid | 1.89 | 0.015 | 0.61 |
| N-Acetyl-L-leucine 1 | 2.34 | 0.000 | 1.58 |
| N-cyclohexylformamide 1 | 1.76 | 0.028 | 1.18 |
| Glycocyamine 1 | 2.12 | 0.002 | 1.55 |
| N-Methyl-L-glutamic acid 2 | 2.36 | 0.000 | 1.76 |
| 2-Methylfumarate | 1.93 | 0.016 | 1.45 |
| Beta-Sitosterol | 2.00 | 0.005 | 4.54 |
| 1,3-Cyclohexanedione 1 | 2.00 | 0.008 | 1.25 |
| Dioctyl phthalate | 1.89 | 0.010 | 1.22 |
| Hexachlorobenzene | 1.50 | 0.039 | 1.36 |
| Norvaline | 2.41 | 0.000 | 0.23 |
| 1-Methylhydantoin 1 | 1.90 | 0.015 | 1.23 |
| Gluconic acid 1 | 1.89 | 0.007 | 2.16 |
| Lipoic acid | 2.32 | 0.000 | 2.01 |
| Lactic acid | 1.70 | 0.041 | 0.66 |
| Cycloleucine 2 | 2.43 | 0.000 | 0.16 |
| D-erythronolactone 2 | 2.26 | 0.001 | 1.87 |
| Glutamine 3 | 2.23 | 0.000 | 1.41 |
| A12.0T vs A12.8T (29) |
| Octanal 2 | 2.26 | 0.002 | 0.55 |
| 2'-Deoxyguanosine 1 | 2.17 | 0.008 | 1.97 |
| Squalene | 2.34 | 0.002 | 1.73 |
| 3-Hydroxypyruvate | 2.23 | 0.003 | 0.60 |
| Methylmalonic acid | 2.42 | 0.000 | 0.50 |
| N,N-dimethylarginine | 2.04 | 0.016 | 1.41 |
| Palmitic acid | 2.09 | 0.008 | 1.34 |
| Uridine 2 | 2.35 | 0.005 | 2.22 |
| 7,8-Dimethylalloxazine | 1.71 | 0.049 | 1.32 |
| Lignoceric acid | 2.31 | 0.006 | 2.26 |
| Behenic acid | 2.24 | 0.011 | 2.31 |
| Thioctamide 1 | 1.64 | 0.049 | 1.42 |
| 6-Phosphogluconic acid | 2.16 | 0.009 | 1.52 |
| Panthenol 2 | 1.79 | 0.024 | 1.56 |
| 2-Ketocaproic acid | 1.68 | 0.038 | 0.68 |
| Melatonin 2 | 1.72 | 0.048 | 1.67 |
| N-Acetyl-L-leucine 1 | 1.77 | 0.034 | 1.22 |
| Octadecanol | 2.40 | 0.002 | 1.59 |
| Cis-gondoic acid | 1.86 | 0.031 | 1.52 |
| 1-Aminocyclopropanecarboxylic acid | 1.99 | 0.011 | 1.23 |
| 2-Methylfumarate | 1.72 | 0.035 | 1.26 |
| Norvaline | 2.51 | 0.001 | 0.36 |
| N-methyltryptophan | 2.07 | 0.009 | 2.22 |
| Lipoic acid | 1.86 | 0.021 | 1.44 |
| Heptadecanoic acid | 2.34 | 0.001 | 1.75 |
| Biotin | 1.76 | 0.041 | 1.48 |
| Cycloleucine 2 | 2.56 | 0.000 | 0.27 |
| D-erythronolactone 2 | 1.85 | 0.029 | 1.34 |
| 2-Ketovaleric acid 2 | 1.72 | 0.039 | 1.33 |
| A12.0T vs A12.10T (27) |
| Octanal 2 | 2.40 | 0.001 | 0.47 |
| Glutaraldehyde 1 | 1.93 | 0.012 | 0.85 |
| Maleamate 3 | 1.81 | 0.019 | 0.74 |
| Malonamide 3 | 1.66 | 0.035 | 0.75 |
| Canavanine degr prod | 2.20 | 0.002 | 0.77 |
| 3,4-Dihydroxypyridine | 1.64 | 0.037 | 0.70 |
| Piceatannol 1 | 1.87 | 0.018 | 0.51 |
| 3-Hydroxypyruvate | 2.35 | 0.002 | 0.54 |
| 4-Hydroxyphenylacetic acid | 1.60 | 0.036 | 0.55 |
| 4-Methylcatechol | 1.78 | 0.020 | 0.74 |
| Methylmalonic acid | 2.51 | 0.000 | 0.42 |
| N,N-dimethylarginine | 1.90 | 0.015 | 1.25 |
| Xanthurenic acid | 1.75 | 0.036 | 2.35 |
| 2-Keto-isovaleric acid 1 | 1.96 | 0.011 | 0.82 |
| Oxalic acid | 1.96 | 0.009 | 0.80 |
| Succinate semialdehyde 2 | 1.92 | 0.010 | 0.78 |
| 2,3-Dihydroxypyridine | 1.70 | 0.038 | 0.87 |
| Alpha-ketoisocaproic acid 2 | 1.93 | 0.011 | 0.58 |
| Dihydroxyacetone | 2.38 | 0.002 | 0.80 |
| Norvaline | 2.45 | 0.001 | 0.36 |
| N-Carbamylglutamate 4 | 1.70 | 0.036 | 1.44 |
| Carbobenzyloxy-L-leucine degr1 | 1.59 | 0.046 | 0.82 |
| Cycloleucine 2 | 2.28 | 0.001 | 0.36 |
| 3-(3-Hydroxyphenyl) propionic acid | 1.65 | 0.047 | 0.25 |
| 3-Aminoisobutyric acid 1 | 1.61 | 0.046 | 0.75 |
| 2-Amino-2-methylpropane-1,3-diol 2 | 2.29 | 0.001 | 0.77 |
| 2-Ketovaleric acid 2 | 1.65 | 0.036 | 0.65 |
| A48.0T vs A48.2T (7) |
| Galactonic acid | 2.47 | 0.010 | 0.35 |
| O-acetylserine 1 | 2.41 | 0.021 | 0.72 |
| Beta-Alanine 2 | 2.46 | 0.007 | 0.63 |
| Lyxose 2 | 2.55 | 0.003 | 0.48 |
| 4-Aminobutyric acid 1 | 2.44 | 0.014 | 0.53 |
| 5-Aminovaleric acid 1 | 2.31 | 0.021 | 0.41 |
| 4-Hydroxyphenylethanol | 1.83 | 0.042 | 0.75 |
| A48.0T vs A48.4T (33) |
| Octanal 2 | 1.97 | 0.023 | 0.32 |
| Cholesterol-2,2,3,4,4,6-d6 | 2.25 | 0.000 | 2.23 |
| Allylmalonic acid | 1.55 | 0.035 | 1.35 |
| 3-Hydroxypyruvate | 2.23 | 0.004 | 0.37 |
| Methylmalonic acid | 2.59 | 0.010 | 0.25 |
| N,N-dimethylarginine | 2.09 | 0.002 | 1.88 |
| 2-Hydroxy-3-isopropylbutanedioic acid | 1.81 | 0.029 | 0.67 |
| 2-Butyne-1,4-diol | 1.55 | 0.035 | 1.38 |
| O-Acetylserine 1 | 1.99 | 0.003 | 0.72 |
| Citraconic acid degr1 | 1.56 | 0.033 | 1.38 |
| Cytidine-monophosphate 1 | 1.64 | 0.029 | 1.61 |
| Panthenol 2 | 1.97 | 0.011 | 1.70 |
| 3-Hexenedioic acid | 1.93 | 0.009 | 1.73 |
| 2-Ketocaproic acid | 2.34 | 0.001 | 0.54 |
| 2,3-Dihydroxypyridine | 1.63 | 0.026 | 1.41 |
| N-Acetyl-L-leucine 1 | 1.89 | 0.007 | 1.57 |
| Maleimide | 1.49 | 0.044 | 1.35 |
| N-cyclohexylformamide 1 | 1.48 | 0.044 | 1.34 |
| Glycocyamine 1 | 1.91 | 0.009 | 1.51 |
| N-Methyl-L-glutamic acid 2 | 1.73 | 0.014 | 1.52 |
| Trans,trans-Muconic acid | 1.88 | 0.013 | 0.75 |
| Beta-Sitosterol | 1.66 | 0.024 | 2.28 |
| 1,3-Cyclohexanedione 1 | 1.56 | 0.035 | 1.35 |
| Norvaline | 2.59 | 0.000 | 0.18 |
| 1-Methylhydantoin 1 | 1.56 | 0.033 | 1.37 |
| Cytosin | 1.58 | 0.043 | 0.82 |
| Gluconic acid 1 | 1.49 | 0.040 | 1.29 |
| Biuret 3 | 1.53 | 0.035 | 1.33 |
| Lipoic acid | 2.09 | 0.003 | 1.71 |
| Cycloleucine 2 | 2.61 | 0.000 | 0.12 |
| D-erythronolactone 2 | 2.22 | 0.001 | 1.93 |
| Glutamine 3 | 1.56 | 0.048 | 1.32 |
| 2-Ketovaleric acid 2 | 1.71 | 0.048 | 1.81 |
| A48.0T vs A48.8T (27) |
| Octanal 2 | 1.92 | 0.027 | 0.34 |
| Cholesterol-2,2,3,4,4,6-d6 | 1.93 | 0.017 | 2.10 |
| 2'-Deoxyguanosine 1 | 1.95 | 0.011 | 1.67 |
| 3-Hydroxypyruvate | 1.74 | 0.029 | 0.54 |
| Methylmalonic acid | 2.59 | 0.010 | 0.27 |
| Uridine 2 | 1.98 | 0.008 | 1.52 |
| 2-Hydroxy-3-isopropylbutanedioic acid | 1.89 | 0.040 | 0.70 |
| Lignoceric acid | 1.73 | 0.027 | 1.76 |
| Behenic acid | 1.62 | 0.039 | 1.64 |
| O-acetylserine 1 | 1.70 | 0.018 | 0.82 |
| Cytidine-monophosphate 1 | 1.74 | 0.036 | 1.76 |
| Thioctamide 1 | 1.63 | 0.048 | 1.55 |
| (S)-Mandelic acid | 1.96 | 0.011 | 1.35 |
| 6-phosphogluconic acid | 1.50 | 0.045 | 1.87 |
| Hexadecane | 1.62 | 0.049 | 0.63 |
| Panthenol 2 | 1.84 | 0.031 | 1.71 |
| 3-Hexenedioic acid | 1.74 | 0.042 | 1.57 |
| 2-Ketocaproic acid | 2.22 | 0.002 | 0.61 |
| Guanosine-5'-monophosphate | 1.98 | 0.021 | 1.74 |
| Trans,trans-Muconic acid | 1.64 | 0.046 | 0.81 |
| Hexachlorobenzene | 1.85 | 0.028 | 1.31 |
| Norvaline | 2.60 | 0.000 | 0.20 |
| Lipoic acid | 1.79 | 0.038 | 1.66 |
| Cycloleucine 2 | 2.52 | 0.000 | 0.21 |
| D-erythronolactone 2 | 1.87 | 0.029 | 1.81 |
| Cerotinic acid | 1.62 | 0.034 | 2.37 |
| 2-Ketovaleric acid 2 | 1.83 | 0.042 | 2.27 |
| A48.0T vs A48.10T (27) |
| Octanal 2 | 2.09 | 0.019 | 0.27 |
| Cholesterol-2,2,3,4,4,6-d6 | 2.03 | 0.011 | 2.09 |
| 2-Ketobutyric acid 2 | 1.94 | 0.027 | 3.91 |
| 3-Hydroxypyruvate | 2.14 | 0.012 | 0.50 |
| Methylmalonic acid | 2.66 | 0.010 | 0.26 |
| N,N-dimethylarginine | 2.10 | 0.007 | 1.73 |
| 2-Hydroxy-3-isopropylbutanedioic acid | 1.98 | 0.025 | 0.66 |
| Succinic acid | 1.78 | 0.047 | 0.53 |
| Maltose | 1.77 | 0.039 | 0.48 |
| Cyclohexane-1,2-diol | 1.85 | 0.027 | 1.28 |
| O-Phosphorylethanolamine | 2.00 | 0.012 | 1.89 |
| Thioctamide 1 | 1.82 | 0.023 | 1.47 |
| (S)-Mandelic acid | 1.79 | 0.025 | 1.30 |
| 3-Hexenedioic acid | 1.95 | 0.017 | 1.58 |
| Inosine 5'-monophosphate | 1.76 | 0.033 | 1.42 |
| Trehalose | 1.95 | 0.028 | 0.19 |
| 2-Ketocaproic acid | 2.12 | 0.006 | 0.67 |
| 3,6-Anhydro-D-galactose 3 | 2.02 | 0.010 | 1.64 |
| N-Acetyl-L-leucine 1 | 1.84 | 0.024 | 1.47 |
| Glycocyamine 1 | 1.95 | 0.018 | 1.49 |
| N-Methyl-L-glutamic acid 2 | 1.65 | 0.049 | 1.43 |
| Hexachlorobenzene | 2.05 | 0.008 | 1.44 |
| Norvaline | 2.65 | 0.000 | 0.17 |
| Lipoic acid | 2.04 | 0.012 | 1.66 |
| 2-Amino-3-methoxybenzoic acid 1 | 1.66 | 0.050 | 0.80 |
| Cycloleucine 2 | 2.21 | 0.004 | 0.40 |
| D-erythronolactone 2 | 2.16 | 0.006 | 1.80 |

Where: VIP- variable influence on projection; FC- fold change values. A12.0T, A12.2T, A12.4T, A12.8T and A12.10T imply fermentation for 12 h, and 0, 2, 4, 8 and 10 mg/kg 5-HTP supplementation, respectively. A48.0T, A48.2T, A48.4T, A48.8T, and A48.10T indicated fermentation for 48 h, and 0, 2, 4, 8 and 10 mg/kg 5-HTP supplementation, respectively. A total of 10 sets of experiments, each group of 6 parallel samples, the total number of samples n = 60.

Supplementary TABLE S4. Comparison of metabolites and pathways under 5-HTP supplementation at different fermentation times *in vitro*.

| Pathway | Metabolite | Group |
| --- | --- | --- |
| ABC transportersAlanine, aspartate and glutamate metabolismAminobenzoate degradationAntifolate resistanceBacterial chemotaxisBenzoate degradationBiosynthesis of alkaloids derived from histidine and purineBiosynthesis of alkaloids derived from ornithine, lysine and nicotinic acidBiosynthesis of alkaloids derived from shikimate pathwayBiosynthesis of alkaloids derived from terpenoid and polyketideBiosynthesis of alkaloids derived from terpenoid and polyketideBiosynthesis of cofactorsBiosynthesis of phenylpropanoidsBiosynthesis of plant hormonesBiosynthesis of plant secondary metabolitesBiosynthesis of secondary metabolitesBiosynthesis of terpenoids and steroidsBiosynthesis of unsaturated fatty acidsBiosynthesis of various alkaloidsBiosynthesis of various plant secondary metabolitesBiotin metabolismBisphenol degradationButanoate metabolismButanoate metabolismC5-Branched dibasic acid metabolismcAMP signaling pathwaycAMP signaling pathwayCarbohydrate digestion and absorptionCarbon fixation pathways in prokaryotesCarbon metabolismCationic antimicrobial peptide (CAMP) resistanceCentral carbon metabolism in cancercGMP-PKG signaling pathwayChemical carcinogenesis - receptor activationChloroalkane and chloroalkene degradationChlorocyclohexane and chlorobenzene degradationCitrate cycle （TCA cycle）Cutin, suberine and wax biosynthesisCysteine and methionine metabolismDegradation of aromatic compoundsFatty acid biosynthesisFatty acid degradationFatty acid elongationFatty acid metabolismGABAergic synapseGalactose metabolismGlucagon signaling pathwayGlycerolipid metabolismGlycerophospholipid metabolismGlycine, serine and threonine metabolismGlycosylphosphatidylinositol (GPI)-anchor biosynthesisGlyoxylate and dicarboxylate metabolismLipoic acid metabolismLysine degradationMetabolic pathwaysMethane metabolismMicrobial metabolism in diverse environmentsNaphthalene degradationNicotinate and nicotinamide metabolismNucleotide metabolismOlfactory transductionOxidative phosphorylationPentose phosphate pathwayPhenylalanine metabolismPhosphotransferase system (PTS)PhototransductionPropanoate metabolismPurine metabolismPyrimidine metabolismPyruvate metabolismRiboflavin metabolismSesquiterpenoid and triterpenoid biosynthesisSphingolipid metabolismSphingolipid signaling pathwayStarch and sucrose metabolismSteroid biosynthesisSulfur metabolismTaste transductionToluene degradationTryptophan metabolismTwo-component systemTyrosine metabolismTyrosine metabolismValine, leucine and isoleucine degradationVancomycin resistanceVitamin digestion and absorptionXylene degradation | (R)-Lipoic acid | A12.0T\_vs\_A12.4TA12.0T\_vs\_A12.8TA48.0T\_vs\_A48.10TA48.0T\_vs\_A48.4TA48.0T\_vs\_A48.8T |
|
|
|
|
| (S)-3-Hydroxybutyric acid | A12.0T\_vs\_A12.2T |
| 1-Aminocyclopropanecarboxylic acid | A12.0T\_vs\_A12.8T |
| 4-Hydroxyphenyl acetate | A12.0T\_vs\_A12.10TA12.0T\_vs\_A12.2TA12.0T\_vs\_A12.4T |
|
|
| 4-Methylcatechol | A12.0T\_vs\_A12.10T |
| D-Lactic acid | A12.0T\_vs\_A12.4T |
| D-Maltose | A48.0T\_vs\_A48.10T |
| Galactonic acid | A48.0T\_vs\_A48.2T |
| Guanosine monophosphate | A48.0T\_vs\_A48.8T |
| Hydroxypyruvic acid | A12.0T\_vs\_A12.10TA12.0T\_vs\_A12.4TA12.0T\_vs\_A12.8TA48.0T\_vs\_A48.10TA48.0T\_vs\_A48.4TA48.0T\_vs\_A48.8T |
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|
| Inosinic acid | A48.0T\_vs\_A48.10T |
| Hexachlorobenzene | A12.0T\_vs\_A12.4TA48.0T\_vs\_A48.8TA48.0T\_vs\_A48.10T |
|
|
| 5-Hydroxyphenyl acetate | A12.0T\_vs\_A12.4TA12.0T\_vs\_A12.10T |
|
| 6-Phosphogluconic acid | A12.0T\_vs\_A12.8TA48.0T\_vs\_A48.8T |
|
| Behenate | A12.0T\_vs\_A12.8TA48.0T\_vs\_A48.8T |
|
| Beta-Sitosterol | A12.0T\_vs\_A12.4TA48.0T\_vs\_A48.4T |
|
| Biotin | A12.0T\_vs\_A12.8T |
| Cytosine | A48.0T\_vs\_A48.4T |
| Deoxyuridine | A12.0T\_vs\_A12.2T |
| Dihydroxyacetone | A12.0T\_vs\_A12.10T |
| Dioctyl phthalate | A12.0T\_vs\_A12.4T |
| Lumichrome | A12.0T\_vs\_A12.8T |
| Mesaconic acid | A12.0T\_vs\_A12.4TA12.0T\_vs\_A12.8T |
|
| Mandelic acid | A48.0T\_vs\_A48.8TA48.0T\_vs\_A48.10T |
|
| Methylmalonic acid | A12.0T\_vs\_A12.10TA12.0T\_vs\_A12.4TA12.0T\_vs\_A12.8TA48.0T\_vs\_A48.10TA48.0T\_vs\_A48.4TA48.0T\_vs\_A48.8T |
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|
| Methylmalonic beta-Sitosterol | A12.0T\_vs\_A12.4T |
| O-Phosphoethanolamine | A48.0T\_vs\_A48.10T |
| Oxalic acid | A12.0T\_vs\_A12.10T |
| Palmitic acid | A12.0T\_vs\_A12.4TA12.0T\_vs\_A12.8T |
|
| Palmitic acid;Squalene | A12.0T\_vs\_A12.8T |
| Succinic acid | A48.0T\_vs\_A48.10T |
| Tetracosanoic acid | A12.0T\_vs\_A12.2TA48.0T\_vs\_A48.8TA12.0T\_vs\_A12.8T |
|
|
| Trans-trans-Muconic acid | A48.0T\_vs\_A48.4TA48.0T\_vs\_A48.8T |
|
| Trehalose | A48.0T\_vs\_A48.10T |
| Tyrosol | A48.0T\_vs\_A48.2T |
| Xanthurenic acid | A12.0T\_vs\_A12.10T |

Where: A12.0T, A12.2T, A12.4T, A12.8T and A12.10T imply fermentation for 12 h, and 0, 2, 4, 8 and 10 mg/kg 5-HTP supplementation respectively; A48.0T, A48.2T, A48.4T, A48.8T, and A48.10T indicated fermentation for 48 h, and 0, 2, 4, 8 and 10 mg/kg 5-HTP supplementation, respectively. A total of 10 sets of experiments, each group of 6 parallel samples, the total number of samples n=60.