**Supplementary Table 1**: Primers used in this work.

|  |  |
| --- | --- |
| Name | Sequence 5`→ 3` |
| VGM57 | GTGTTATCAAACAGGTTTTC |
| VGM88 | TTGAAGTACAATTTATACTGCTCAGAGGCTCATTCGATTGGTCTAAAGGAGTGGCATAG |
| VGM89 | CTTGAGAAGGTTTTGGGACGCTCGAAGGCTTTAATTTGCAAGCTGATTAAGGAATGATAATCA |
| VGM85 | TTGATTATCATTCCTTAATCGTTATTCTAAAATGAAGACAGCCACAATCTGTAGTTTTGTAGCTTGCAAATTAAAGC |
| VGM84 | CTCATATAACACATACAATAAAACCAAGAAATGTCTTCAAACTATGCCACTCCTTTAGACCAATCGAATGAGCCTCTGAG |
| VGM83 | ACTAGTGGCCTATGCGGCCGCGGATCTGCCGGTCTCCCTA  TAGTGAGTCGTATTAATTTCATTGACCGATCTTTATGCC |
| VGM82 | GAAGTTATATTAAGGGTTGTCGACCTGCAGCGTACGAAGCTTCAG CTGGCGGCCGCGTTCAATAATGCTCACCAAGTGAC |
| VGM50 | CTCATATAACACATACAATAAAACCAAGAAATGTCTTCAAACTATGCCACTCCTTTAGACCAGCTGAAGCTTCGTACGC |
| VGM51 | TTGATTATCATTCCTTAATCGTTATTCTAAAATGAAGACAGCCACAATCTGTAGTTTTGTGCATAGGCCACTAGTGGATCTG |
| VGM56 | AGCTCGATTTTCAGCACCTTG |
| NCOITR | GAGTCTTTTCCTTACCCATAGTTGTTTATGTTCGG |
| NCOITF | CCGAACATAAACAACTATGGGTAAGGAAAAGACTC |
| T3 | AATTAACCCTCACTAAAGGGA |
| T7 | GTAATACGAACTCACTATAGGGC |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Amino acid consumption (mg/L) | | | | | | |
| Strain | Aspartic Acid | Glutamic Acid | Serine | Glutamine | Arginine | Valine | Phenylalanine |
| AC19 | 37.60 ± 1.61b | 73.93 ± 4.38b | 51.70± 1.30c | 428.43 ± 1.85c | 82.27 ± 3.96c | 40.63 ± 0.50c | 37.90 ± 0.01b |
| AC114 | 26.70 ± 0.85ª | 47.50 ± 3.46ª | 29.20 ± 0.35ª | 373.67 ± 0.84ª | 53.10 ± 6.29b | 3.93 ± 1.96a | 26.07 ± 0.67ª |
| EC1118 | 41.23 ± 1.53c | 108, 00 ± 4.48c | 33.13 ± 1.53b | 396.57 ± 2.80b | 23.40 ±13.36 a | 34.40 ± 4.85b | 36.33 ± 0.40b |

**Supplementary Table 2:** Differential consumption of amino acids in strainsAC19, AC114 and EC1118 during alcoholic fermentation in MS300.