Supplementary 2: API 50 CH profile *L. fermentum* G-4

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| --- | --- | --- |
| No | Substrate | Result |
| Control | / | - |
| 1 | GLY - Glycerol | - |
| 2 | Ery - Erythriol | - |
| 3 | Dara - D-arabinose | - |
| 4 | LARA - L-arabinose | - |
| 5 | RIB - Ribose | + |
| 6 | DXYL - D-xylose | - |
| 7 | LXYL - L-xylose | - |
| 8 | ADO - Adonitol | - |
| 9 | MDX-β methyl xyloxide | - |
| 10 | GAL - Galactose | + |
| 11 | GLU - D-Glucose | + |
| 12 | FRU - D-Fructose | + |
| 13 | MNE - D-Mannose | + |
| 14 | SBE - L-Sorbose | - |
| 15 | RHA - Rhamnose | - |
| 16 | DUL - Dulcitol | - |
| 17 | INO - Inositol | - |
| 18 | MAN - Mannitol | - |
| 19 | SOR - Sorbitol | - |
| 20 | MDM-α Methyl D-mannoside | - |
| 21 | MDG α Methyl D-glucoside | - |
| 22 | NAG-N- acetyl glucosamine | + |
| 23 | AMY - Amygdaline | - |
| 24 | ARB - Arbutine | - |
| 25 | ESC - Esculine | + |
| 26 | SAL - Salicine | - |
| 27 | CEL - Cellobiose | + |
| 28 | MAL - Maltose | + |
| 29 | LAC - Lactose | + |
| 30 | MEL - Mellbiose | + |
| 31 | SAC - Saccharose | + |
| 32 | TRE - Trehalose | - |
| 33 | INU - Inuline | - |
| 34 | MLZ - Melezitose | - |
| 35 | RAF- D-raffinose | + |
| 36 | AMD - Starch | - |
| 37 | GLYG - Glycogene | - |
| 38 | XLT - Xylitol | - |
| 39 | GEN- β-Gentiobiose | - |
| 40 | TUR - D-Turanose | - |
| 41 | LYX - L-xylose | - |
| 42 | TAG - D-Tagatose | - |
| 43 | DFUC - D-Fucose | - |
| 44 | LFUC - L-Fucose | - |
| 45 | DARL - D-Arabitol | - |
| 46 | LARL - L-Arabitol | - |
| 47 | GNT - Gluconate | + |
| 48 | 2KG-2 - ceto-gluconate | - |
| 49 | 5KG-5 - ceto gluconate | - |