Supplementary material 1. Phenotypic characteristics of isolate *L. fermentum* G-4

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| Test | Results |
| Gram staining | Gram positive rods |
| Colony morphology | White small colonies |
| Oxigen preferences  Growth in aerobic conditions  Growth in anaerobic conditions | **+ +** |
| Growth in medium with NaN3 (0.02 %) | **+** |
| Osmotic pressure  Growth with 2.0 % NaCl  Growth with 4.0 % NaCl  Growth with 6.5 % NaCl | **+ + ±** |
| Production of gas from glucose | **+** |
| Production of ammonia from arginine | **+** |
| Coagulase test | **+** |
| Catalase test | **-** |
| Hemolysis test | **-** |
| Growth at pH 4 | **+** |
| Temperature range  15 oC  37 oC  40 oC  45 oC  50 oC | **+ + + + -** |

\*+/- weak growth