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 preferencesGrowth in aerobic conditionsGrowth in anaerobic conditions | **++** |
| Growth in medium with NaN3 (0.02 %) | **+** |
| Osmotic pressureGrowth with 2.0 % NaClGrowth with 4.0 % NaClGrowth 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 range15 oC37 oC40 oC45 oC50 oC | **++++-** |

\*+/- weak growth