**Supplementary Table 4.** Bacterial strains and plasmids used in this study.

|  |  |  |
| --- | --- | --- |
| **Strain or plasmid** | **Relevant characteristics** | **Reference or source** |
| **Strain** |  |  |
| ***E. coli*** |  |  |
| TG1 | *supE hsd5h thi (∆lac-proAB) F’ (traD36 proAB-lacZ∆M15)* | 4 |
| GM1674 | *dam-dcm- repA+* | 5 |
| ***L. plantarum*** |  |  |
| NC8 | Isolated from grass silage, plasmid free | 6 |
| *∆dltE* | NC8 strain deleted for *nc8\_1738* (formerly *pbpX2*) | 7 |
| *∆dltXABCD* | NC8 strain deleted from *nc8\_1737* to *nc8\_1733* | 7 |
| *∆dltop* | NC8 strain deleted from *nc8\_1738* to *nc8\_1733* | 7 |
| *∆ltaS* | NC8 strain deleted for *nc8\_1125* | This study |
| *∆tagO* | NC8 strain deleted for *nc8\_0646* | This study |
| *∆dacA1A2* | NC8 strain deleted for *nc8\_2720* and *nc8\_1122* | This study |
| *dltES128A* | Knock-in of *dltE* mutated on S128 on *∆dltE* strain | This study |
| **Plasmids** |  |  |
| pG+host9 | Ermr, repATs | 8 |