

Figure S1: Box plot of cell density (expressed as log CFU/mL) of *L. plantarum* strains, at different pH and salt conditions at 32 °C.

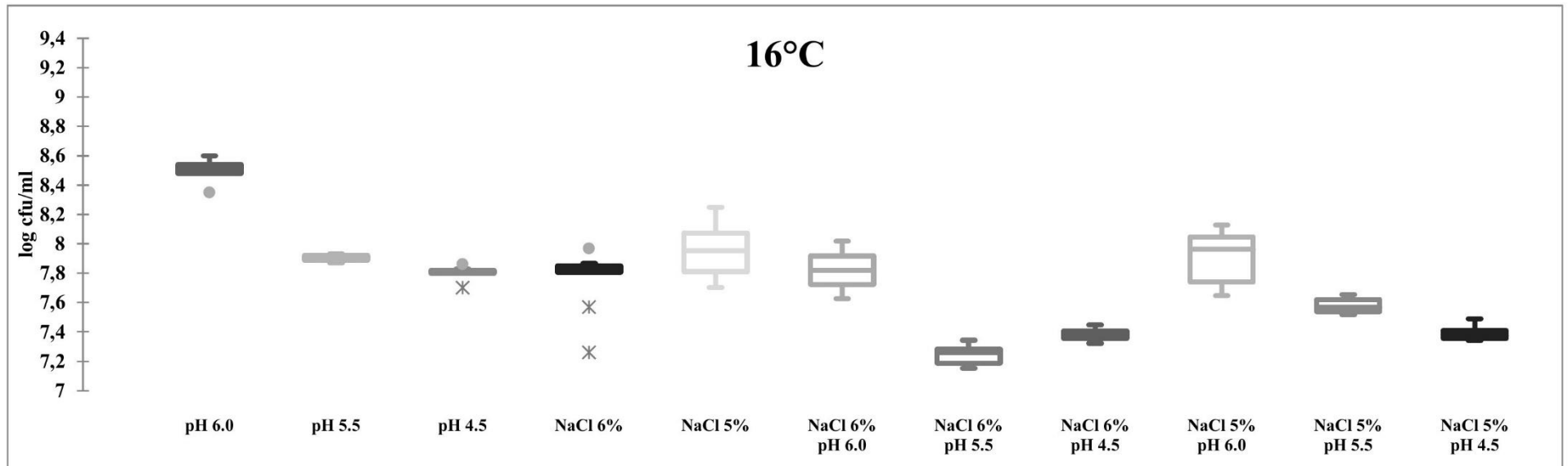


Figure S2: Box plot of cell density (expressed as log CFU/mL) of *L. plantarum* strains, at different pH and salt conditions at 16 °C

Supplementary Table 1. Viable counts (log CFU/mL) of *L. plantarum* strains at different stress conditions, incubated at 32°C. All strains, as reported in the text, were inoculated at initial cell density of 7 log CFU/mL.

<i>L. plantarum</i> strains				NaCl 6.0%			NaCl 5.0%				
	pH 6.0	pH 5.5	pH 4.5	NaCl 6.0%	NaCl 5.0%	pH 6.0	pH 5.5	pH 4.5	pH 6.0	pH 5.5	pH 4.5
F1.8M	9.30±0.07 ^{aAB}	8.52±0.10 ^{bc}	8.47±0.06 ^{bc}	8.46±0.05 ^{bc}	8.49±0.06 ^{bc}	8.63±0.19 ^{bAB}	8.40±0.07 ^{bc}	8.25±0.07 ^c	8.44±0.13 ^{bc}	8.47±0.05 ^{bc}	8.40±0.06 ^{bc}
F1.10	9.34±0.12 ^{aA}	8.58±0.06 ^b	8.50±0.10 ^b	8.46±0.07 ^{bc}	8.49±0.06 ^b	8.05±0.11 ^{dC}	8.32±0.09 ^{bcd}	8.21±0.12 ^{cd}	8.48±0.11 ^{bc}	8.45±0.06 ^{bc}	8.33±0.11 ^{bc}
F1.16	8.91±0.06 ^{aD}	8.48±0.07 ^{ab}	8.48±0.07 ^{ab}	8.52±0.09 ^{ab}	8.48±0.06 ^{ab}	8.41±0.12 ^{bABC}	8.36±0.06 ^b	8.28±0.14 ^b	8.55±0.20 ^{ab}	8.45±0.06 ^{ab}	8.37±0.06 ^b
F3.2	9.24±0.06 ^{aAB}	8.56±0.05 ^{bc}	8.49±0.08 ^c	8.46±0.07 ^c	8.49±0.05 ^c	8.77±0.19 ^{bAB}	8.43±0.06 ^c	8.40±0.07 ^c	8.58±0.09 ^{bc}	8.50±0.05 ^c	8.43±0.07 ^c
F3.5	9.23±0.13 ^{aABC}	8.55±0.07 ^b	8.43±0.08 ^b	8.46±0.06 ^b	8.49±0.05 ^b	8.62±0.26 ^{bAB}	8.43±0.12 ^b	8.41±0.06 ^b	8.64±0.20 ^b	8.50±0.05 ^b	8.42±0.13 ^b
F3.6	9.08±0.06 ^{aBCD}	8.56±0.06 ^{bc}	8.44±0.07 ^{bcd}	8.41±0.07 ^{bcd}	8.46±0.08 ^{bcd}	8.34±0.11 ^{cBC}	8.37±0.05 ^{cd}	8.29±0.07 ^d	8.65±0.14 ^b	8.42±0.06 ^{bcd}	8.31±0.09 ^d
F3.7	9.36±0.10 ^{aA}	8.58±0.06 ^{bcd}	8.49±0.09 ^{cde}	8.43±0.07 ^{cde}	8.47±0.07 ^{cde}	8.67±0.12 ^{bcAB}	8.37±0.08 ^{de}	8.25±0.1 ^e	8.78±0.11 ^b	8.42±0.06 ^{cde}	8.32±0.09 ^{de}
F3.8	8.99±0.08 ^{aCD}	8.56±0.06 ^{bc}	8.47±0.07 ^{cd}	8.41±0.06 ^{cd}	8.44±0.08 ^{cd}	8.77±0.15 ^{abAB}	8.36±0.07 ^{cd}	8.28±0.07 ^d	8.56±0.16 ^{bc}	8.42±0.06 ^{cd}	8.34±0.09 ^{cd}
C11C8	9.30±0.10 ^{aAB}	8.58±0.07 ^{bc}	8.44±0.09 ^c	8.45±0.06 ^b	8.49±0.05 ^b	8.80±0.05 ^{bA}	8.39±0.12 ^b	8.34±0.06 ^b	8.46±0.15 ^b	8.47±0.06 ^b	8.40±0.10 ^b

a-e: different lowercase letters within the same line indicate significant differences at $P < 0.05$; A-D: different capital letters within the same column indicate significant differences at $P < 0.05$.

Supplementary Table 2. Viable counts (log CFU/mL) of *L. plantarum* strains at different stress conditions, incubated at 16°C. All strains, as reported in the text, were inoculated at initial cell density of 7 log CFU/mL.

<i>L. plantarum</i> strains	NaCl 6.0%					NaCl 5.0%					
	pH 6.0	pH 5.5	pH 4.5	NaCl 6.0%	NaCl 5.0%	pH 6.0	pH 5.5	pH 4.5	pH 6.0	pH 5.5	pH 4.5
F1.8M	8.54±0.12 ^a	7.92±0.05 ^b	7.86±0.06 ^b	7.81±0.12 ^{bB}	7.91±0.07 ^{bBCD}	7.92±0.07 ^{bAB}	7.15±0.08 ^d	7.32±0.09 ^{cd}	8.05±0.10 ^{bBC}	7.53±0.05 ^c	7.36±0.06 ^{cd}
F1.10	8.48±0.06 ^a	7.88±0.05 ^b	7.83±0.06 ^b	7.57±0.10 ^{cdBC}	7.76±0.07 ^{bcD}	7.72±0.12 ^{bcBC}	7.18±0.1 ^e	7.36±0.08 ^{de}	7.74±0.05 ^{bcDE}	7.56±0.05 ^{dc}	7.38±0.07 ^{de}
F1.16	8.60±0.05 ^a	7.90±0.05 ^b	7.70±0.05 ^{cd}	7.85±0.06 ^{bcB}	7.70±0.05 ^{cdD}	7.69±0.15 ^{cdBC}	7.34±0.09 ^f	7.45±0.06 ^f	7.65±0.10 ^{edE}	7.63±0.06 ^{ef}	7.49±0.06 ^{ef}
F3.2	8.35±0.20 ^a	7.90±0.05 ^{bc}	7.81±0.06 ^{bc}	7.83±0.11 ^{bcB}	8.07±0.09 ^{bABCD}	7.83±0.06 ^{bcABC}	7.28±0.07 ^e	7.36±0.09 ^e	7.89±0.05 ^{bcCD}	7.65±0.05 ^{dc}	7.43±0.09 ^{de}
F3.5	8.51±0.11 ^a	7.90±0.05 ^b	7.80±0.06 ^{bc}	8.25±0.07 ^{aA}	8.37±0.07 ^{aA}	7.70±0.14 ^{bcBC}	7.34±0.09 ^d	7.38±0.07 ^d	8.37±0.09 ^{aA}	7.62±0.05 ^c	7.38±0.07 ^d
F3.6	8.48±0.06 ^a	7.87±0.06 ^c	7.80±0.05 ^c	7.81±0.06 ^{cB}	8.25±0.05 ^{bAB}	7.82±0.07 ^{cABC}	7.28±0.08 ^e	7.38±0.07 ^e	8.13±0.06 ^{bB}	7.57±0.06 ^d	7.40±0.07 ^{de}
F3.7	8.51±0.14 ^a	7.93±0.04 ^b	7.8±0.07 ^{bc}	7.26±0.12 ^{fC}	7.81±0.07 ^{bcCD}	7.76±0.07 ^{bcBC}	7.19±0.10 ^f	7.41±0.06 ^{ef}	7.66±0.11 ^{cdE}	7.52±0.05 ^{de}	7.41±0.08 ^{ef}
F3.8	8.54±0.13 ^a	7.89±0.06 ^c	7.81±0.07 ^{cd}	7.84±0.10 ^{dcB}	8.17±0.06 ^{bABC}	7.63±0.10 ^{deC}	7.20±0.05 ^g	7.43±0.06 ^{fg}	8.05±0.11 ^{bcBC}	7.54±0.06 ^{ef}	7.34±0.07 ^{fg}
C11C8	8.48±0.12 ^a	7.92±0.06 ^b	7.82±0.08 ^b	7.87±0.06 ^{bB}	7.96±0.07 ^{bBCD}	8.00±0.10 ^{bA}	7.26±0.09 ^d	7.32±0.07 ^d	7.96±0.05 ^{bBC}	7.58±0.05 ^c	7.34±0.11 ^d

a-g: different lowercase letters within the same line indicate significant differences at P < 0.05; A-E different capital letters within the same column indicate significant differences at P < 0.05.