

Biofilm production (OD ₅₈₀)						
Sugar Concentration	Environmental condition	LP8	LP25	LP86	LP95	LP100
Glucose	Aerobiosis	5% 0.507±0.011 ^{Ac}	0.103±0.008 ^{Aa}	0.220±0.021 ^{Ab}	0.227±0.014 ^{Ab}	0.219±0.016 ^{Ab}
		10% 0.709±0.021 ^{Cc}	0.108±0.005 ^{Aa}	0.242±0.016 ^{Ab}	0.230±0.019 ^{Ab}	0.241±0.019 ^{Ab}
		20% 0.778±0.010 ^{Dd}	0.100±0.006 ^{Aa}	0.298±0.020 ^{Bc}	0.223±0.020 ^{Ab}	0.297±0.014 ^{Bc}
	Anaerobiosis	5% 0.609±0.012 ^{Bd}	0.154±0.008 ^{Ba}	0.227±0.013 ^{Ab}	0.207±0.019 ^{Ab}	0.265±0.022 ^{Bc}
		10% 0.782±0.047 ^{Dc}	0.150±0.011 ^{Ba}	0.232±0.011 ^{Ab}	0.224±0.016 ^{Ab}	0.263±0.013 ^{Bb}
		20% 0.810±0.032 ^{De}	0.152±0.008 ^{Ba}	0.346±0.024 ^{Cd}	0.238±0.019 ^{Ab}	0.294±0.007 ^{Bc}
Fructose	Aerobiosis	5% 0.574±0.018 ^{Ac}	0.106±0.005 ^{Aa}	0.221±0.020 ^{Ab}	0.224±0.015 ^{Ab}	0.216±0.009 ^{Ab}
		10% 0.701±0.011 ^{Bc}	0.125±0.008 ^{Aa}	0.231±0.020 ^{Ab}	0.232±0.018 ^{Ab}	0.230±0.010 ^{Ab}
		20% 0.795±0.008 ^{Cd}	0.121±0.008 ^{Aa}	0.234±0.013 ^{Ab}	0.326±0.025 ^{Bc}	0.231±0.008 ^{Ab}
	Anaerobiosis	5% 0.765±0.024 ^{Cd}	0.112±0.011 ^{Aa}	0.197±0.008 ^{Ab}	0.296±0.009 ^{Bc}	0.197±0.013 ^{Ab}
		10% 0.735±0.024 ^{Bd}	0.132±0.010 ^{Aa}	0.223±0.012 ^{Ab}	0.295±0.025 ^{Bc}	0.295±0.017 ^{Bc}
		20% 0.860±0.041 ^{Dd}	0.143±0.009 ^{Aa}	0.239±0.018 ^{Bb}	0.294±0.009 ^{Bc}	0.293±0.015 ^{Bc}
Sucrose	Aerobiosis	5% 0.671±0.014 ^{Ad}	0.129±0.002 ^{Aa}	0.220±0.006 ^{Ab}	0.220±0.001 ^{Ab}	0.374±0.015 ^{Ac}
		10% 0.671±0.006 ^{Ad}	0.137±0.006 ^{Aa}	0.222±0.011 ^{Ab}	0.230±0.011 ^{Bb}	0.372±0.007 ^{Ac}
		20% 0.684±0.015 ^{Ad}	0.127±0.006 ^{Aa}	0.209±0.015 ^{Ab}	0.225±0.005 ^{Bb}	0.397±0.012 ^{Bc}
	Anaerobiosis	5% 0.778±0.012 ^{Bd}	0.157±0.005 ^{Ba}	0.356±0.006 ^{Bc}	0.197±0.012 ^{Ab}	0.358±0.013 ^{Ac}
		10% 0.807±0.008 ^{Cc}	0.186±0.006 ^{Ca}	0.352±0.020 ^{Bb}	0.195±0.004 ^{Aa}	0.357±0.018 ^{Ab}
		20% 0.868±0.004 ^{Dd}	0.189±0.007 ^{Ca}	0.360±0.010 ^{Bc}	0.236±0.009 ^{Bb}	0.352±0.009 ^{Ac}

Table S5. Biofilm production (expressed as OD value at 580 nm) of *L. plantarum* strains in MRS (aerobiosis and anaerobiosis conditions) with glucose, fructose, sucrose after incubation at 37° C for 24 h. Results are reported as mean ± standard deviation (n=3). For every sugar, different lowercase letters (a-c), in each row, and different uppercase letters (A-E), in each column, indicate significant differences (p < 0.05).