

Table S1. Effect of different condition treatments on the biogenic amine production capacity of *Morganella morganii*. ^a

Biogenic Amine Content (mg/L)	Control Group ^b				Experimental Group ^b			
	pH				pH			
	4	5	6	7	4	5	6	7
Phenylethylamine e	0.32 ± 0.01 ^f	10.63 ± 2.01 ^e	13.40 ± 2.69 ^e	18.41 ± 4.68 ^d	0.40 ± 0.05 ^f	0.37 ± 0.06 ^f	10.34 ± 1.55 ^e	14.49 ± 1.06 ^{d,e}
Tryptamine	0.16 ± 0.02 ^d	0.16 ± 0.01 ^d	0.17 ± 0.02 ^d	ND ^{c,e}	0.21 ± 0.04 ^d	0.21 ± 0.03 ^d	0.18 ± 0.05 ^d	0.16 ± 0.02 ^d
Cadaverine	2.94 ± 0.02 ^g	15.91 ± 2.07 ^e	33.64 ± 6.30 ^d	18.87 ± 1.67 ^e	3.25 ± 0.18 ^{f,g}	2.68 ± 0.22 ^g	8.54 ± 1.43 ^f	17.52 ± 2.81 ^e
Putrescine	0.63 ± 0.01 ^h	7.69 ± 0.61 ^{f,g}	11.01 ± 2.11 ^e	31.99 ± 3.26 ^d	0.65 ± 0.02 ^h	1.04 ± 0.02 ^h	5.84 ± 1.31 ^g	9.98 ± 1.85 ^{e,f}
Tyramine	2.04 ± 0.09 ^{d,e}	2.32 ± 0.34 ^d	2.45 ± 0.46 ^d	2.23 ± 0.27 ^d	2.13 ± 0.29 ^{de}	1.95 ± 0.21 ^{d,e,f}	1.38 ± 0.22 ^f	1.61 ± 0.31 ^{e,f}
Histamine	0.4 ± 0.01 ^h	33.04 ± 2.53 ^{d,e}	36.94 ± 4.91 ^d	21.40 ± 3.20 ^g	0.7 ± 0.03 ^h	0.63 ± 0.03 ^h	27.74 ± 2.59 ^{e,f}	25.17 ± 4.12 ^{f,g}

^a Values are expressed as mean ± standard deviation (n = 3). ^b *M. morganii* cultured in blank medium is the control group; *M. morganii* cultured in medium supplemented with *Lpb. plantarum* CFS is the experimental group. ^c ND, the biogenic amine of the samples is less than 0.05 mg/L in wet base content. ^{d-h} Different letters in the same row indicate a significant difference (P < 0.05, different culture conditions).