

Table S1. The enzyme activities, (A) protease (B) β -glucosidase, and (C) amylase activities, of koji samples made with varying inocula permutations.

	Rice		MA		MB		CO		SA		SB	
	Fermentation time (h)											
	0	36	72	36	72	36	72	36	72	36	72	
(A) Protease	5.95 ± 2.72 ^a	33.93 ± 6.44 ^{b,c}	95.23 ± 9.83 ^d	38.69 ± 5.15 ^{e,f}	29.76 ± 7.21 ^f	47.62 ± 8.24 ^b	157.74 ± 7.43 ^e	37.50 ± 7.14 ^f	49.40 ± 9.83 ^b	46.40 ± 10.71 ^{e,f}	35.12 ± 8.44 ^{e,f}	
(B) β -glucosidase	0.41 ± 0.14 ^a	1.57 ± 0.19 ^{b,c}	1.83 ± 0.08 ^b	1.09 ± 0.14 ^c	1.43 ± 0.17 ^{b,c}	3.93 ± 0.70 ^d	9.03 ± 0.90 ^e	1.59 ± 0.19 ^{b,c}	1.59 ± 0.10 ^{b,c}	1.19 ± 0.08 ^{b,c}	3.38 ± 0.40 ^d	
(C) Amylase	0.15 ± 0.00 ^a	0.54 ± 0.00 ^{b,c}	0.74 ± 0.05 ^d	0.18 ± 0.02 ^{e,f}	0.26 ± 0.22 ^c	0.59 ± 0.04 ^b	0.47 ± 0.03 ^c	0.61 ± 0.05 ^b	0.73 ± 0.12 ^d	0.17 ± 0.01 ^f	0.36 ± 0.02 ^e	

MA MA - monoculture, A. oryzae; MB - monoculture, B. amyloliquefaciens; CO - co-culture, A. oryzae and B. amyloliquefaciens; SA - sequential inoculation, B. amyloliquefaciens after 36 h of A. oryzae inoculation; SB- sequential inoculation, A. oryzae after 36 h of B. amyloliquefaciens inoculation. Significant differences were determined by ANOVA followed by Duncan's multiple range test ($p < 0.05$).