

34 **Supplementary Table S3.** Survival of four strains of *P. acidilactici* (BYF26, BYF20, BF14, and BF9) encapsulated with GA:SKM30
 35 over a 90 day storage time¹⁾²⁾

Time (days)	BYF26	BYF20	BF14	BF9	SEM	p-value
0	10.82 ± 0.4 ^c	10.62 ± 0.05 ^{ab}	10.76 ± 0.36 ^{ab}	11.53 ± 0.59 ^{ab}	0.14	0.050
Storage at room temperature						
14	10.04 ± 0.05 ^{cd}	8.69 ± 0.04 ^a	8.84 ± 0.04 ^{ab}	9.97 ± 0.57 ^{cd}	0.15	< 0.001
30	9.93 ± 0.11 ^{cd}	7.98 ± 0.06 ^a	9.97 ± 0.02 ^a	9.65 ± 0.57 ^{bcd}	0.20	< 0.001
60	8.45 ± 0.36 ^b	6.78 ± 0.04 ^a	6.43 ± 0.01 ^a	8.59 ± 0.11 ^b	0.26	< 0.001
90	Non-viable cells found on the plate					
Storage at 4°C						
14	10.54 ± 0.19 ^d	9.59 ± 0.57 ^{bc}	9.62 ± 0.02 ^{bc}	10.59 ± 0.13 ^d	0.15	< 0.001
30	10.29 ± 0.06 ^d	9.20 ± 0.72 ^{bc}	8.78 ± 0.07 ^{ab}	10.42 ± 0.39 ^d	0.20	< 0.001
60	10.1 ± 0.01 ^d	9.01 ± 0.06 ^{bc}	8.33 ± 0.65 ^b	9.81 ± 0.07 ^{cd}	0.26	< 0.001
90	9.85 ± 0.22 ^c	8.65 ± 0.07 ^b	7.93 ± 0.59 ^{ab}	8.47 ± 0.57 ^a	0.15	0.30

36 SEM, standard error of mean

37 ¹⁾ Encapsulation efficacy data represent the mean of 3 replicates \pm standard deviation in log CFU/mL units.

38 ²⁾ The standard viable cell count of probiotic products after storage time should not be lower than 6 log CFU/mL.

39 ^{a-d} Different lowercase letters indicate significant differences at the same storage time ($p < 0.05$).

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