

21 **Supplementary Table S1.** Classification of inhibition zones, as referenced by
 22 Sirichokchatchawan et al., 2017.

Inhibition zone (mm)	Result description
6 - 9	+ : weak inhibition
10 - 13	++ : intermediate
14 - 16	+++ : strong
≥ 17	++++ : extremely strong

23 mm, millimeter

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25 **Supplementary Table S2:** Encapsulation efficacy of the GA:SKM30 formulation with four *P.*
 26 *acidilactici* strains.

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Encapsulated strains	Encapsulation efficiency (%)
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<i>P. acidilactici</i> BYF26	90.13 ± 0.77
<i>P. acidilactici</i> BYF20	89.37 ± 3.95
<i>P. acidilactici</i> BF14	89.87 ± 1.86
<i>P. acidilactici</i> BF9	92.00 ± 4.79
SEM	0.14

28 SEM, standard error of mean

29 ¹⁾ Encapsulation efficacy data represent the mean of 3 replicates ± standard deviation.

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