



Supplementary

Prebiotic effect of spices, herbs and Thai curry under *in-vitro* digestion on attachment of probiotic bacteria on large intestine Caco-2 cells

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Supplementary Figure

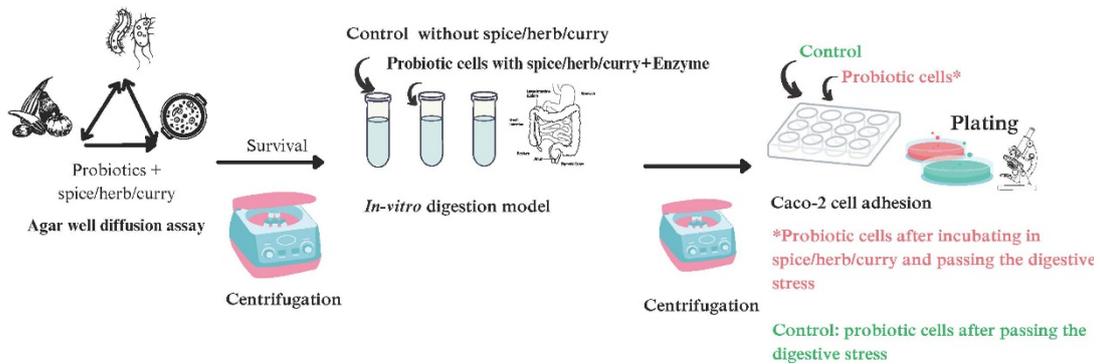


Fig. S1 Adhesive properties of selected probiotic strains on Caco-2 cells (Created using Canva.com)

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Supplementary Tables

Table S1 Inhibition effect of Thai curries or spice/herb extracts on probiotic bacteria based on agar well diffusion assay

Type of extract/curry	Inhibition zone(cm)		
	<i>L. acidophilus</i>	<i>L. casei</i>	<i>B. bifidum</i>
Hang-lay curry	0	0	0
Nam Ngeaw curry	0	0	0
Gaeng Aom	0	0	0
Red curry	0	0	0
Green curry	0	0	0
Massaman curry	0	0	0
Yellow curry	0	0	0
Som curry	0	0	0
Chili	0	0	0
Galangal	0	0	0
Garlic	0	0	0
Turmeric	0	0	0
Shallot	0	0	0
Lemon grass	0	0	0
Basil	0	0	0
Red cotton tree flowers	0	0	0
Cloves	0	0	0
Coriander root	0	0	0
Cumin	0	0	0
Shrimp paste	0	0	0
Cinnamon	0	0	0
Finger Root	0	0	0

Table S2 Prebiotic efficiency of Thai curries to support Caco-2 cell adhesion of probiotics

Type of curry	% Difference of Caco-2 cell adhesion from control		
	<i>L. acidophilus</i>	<i>L. casei</i>	<i>B. bifidum</i>
Control			
Hang-lay curry	-1.07	-0.2	-0.31
Nam Ngeaw	-0.26	+1.95	+0.3
Gaeng Aom	+0.28	+0.71	-0.13
Red curry	-1.00	-0.3	-0.36
Green curry	-1.01	-0.18	-0.25
Massaman curry	-1.07	-0.27	-0.43
Yellow curry	-1.08	-0.23	-0.4
Som curry	-0.72	+0.35	+0.62

Control treatment = probiotics without inoculation with Thai curries or spice/herb extracts after passing simulated gastrointestinal conditions.

+ = enhanced % Caco-2 cell adhesion of probiotic strains compared to control.

- = lowered % Caco-2 cell adhesion of probiotic strains compared to control.

Table S3 Prebiotic efficiency of spice/herb extracts to support Caco-2 cell adhesion of probiotics

Type of extract	% Difference of Caco-2 cell adhesion from control		
	<i>L. acidophilus</i>	<i>L. casei</i>	<i>B. bifidum</i>
Control			
Chili	-0.62	+0.75	-0.36
Garlic	-0.96	-0.17	-0.41
Galangal	-0.49	+0.18	+0.21
Turmeric	-0.85	-0.15	-0.26
Shallot	-0.94	-0.13	-0.34
Lemon grass	-0.73	-0.08	-0.27
Basil	-0.73	-0.11	-0.2
Red cotton tree flowers	-0.71	-0.01	-0.05
Cloves	-0.56	+0.49	+0.35
Coriander root	-0.45	+0.92	+0.68
Cumin	-0.69	+0.11	-0.14
Shrimp paste	-1.02	+0.38	-0.13
Cinnamon	-0.54	+0.03	-0.19
Finger Root	-0.65	+0.04	-0.12

Control treatment = probiotics without inoculation with Thai curries or spice/herb extracts after passing simulated gastrointestinal conditions.

+ = enhanced % Caco-2 cell adhesion of probiotic strains compared to control.

- = lowered % Caco-2 cell adhesion of probiotic strains compared to control.