Online Supplementary material

Table S1. Mean overall liking and liking of taste, appearance, and texture scores (mean ± SE) on ninepoint Likert scale of the four versions of the cumin blend legume-based mezze, each being presented in different sessions, one week apart.

	Test product									
	LS		LSH	LSHS		S		S		
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	P for trend	
Overall Liking										
Model 1	5.54	0.20	5.73	0.20	5.72	0.20	5.92	0.20	0.065	
Model 2	5.49	0.65	5.66	0.65	5.58	0.65	5.78	0.65	0.254	
Liking of taste										
Model 1	5.39 ^b	0.20	5.56 ^{a,b}	0.20	5.63 ^{a,b}	0.20	5.81ª	0.20	0.044	
Model 2	5.37	0.66	5.58	0.66	5.51	0.66	5.71	0.66	0.149	
Liking of texture										
Model 1	5.61	0.20	5.72	0.20	5.75	0.20	5.64	0.20	0.809	
Model 2	5.56	0.62	5.70	0.62	5.54	0.62	5.46	0.62	0.567	
Liking of appearance										
Model 1	5.69	0.19	5.47	0.19	5.61	0.19	5.67	0.19	0.371	
Model 2	5.57	0.60	5.33	0.60	5.37	0.60	5.44	0.60	0.388	

Model 1 was adjusted for treatment, visit, and time.

Model 2 was further adjusted for gender, BMI, gender × treatment interaction, frequency of legume consumption, frequency of adding salt while cooking, frequency of adding herbs and spices (H&S) while cooking, score for the Salt Intake questionnaire, and score for the TFEQ Factor 1.

S, standard-salt legume-based mezze; *LS*, low-salt legume-based mezze without herbs and spices; *SHS*, standard-salt legume-based mezze with herbs and spices; *LSHS*, low-salt legume-based mezze with herbs and spices.

^{a,b,c} Mean values within a row with different superscript letters were significantly different (p < 0.05, ANCOVA followed by Tukey's post hoc test)

	Treatment								_
	LS		LSHS		S		SHS		
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	P valu
Appetite profile									
Hunger (mm)									
Model 2	29.8	3.4	31.1	3.4	29.4	3.4	31.4	3.4	0.84
Model 3	29.2	1.7	30.5	1.7	28.9	1.7	31.0	1.7	0.77
Fullness (mm)									
Model 2	67.0	4.1	62.6	4.1	68.4	4.1	65.8	4.1	0.23
Model 3	66.8	2.0	62.1	2.0	67.8	2.0	65.4	2.0	0.17
Desire to eat (mm)									
Model 2	29.2	3.3	29.9	3.3	28.7	3.3	31.4	3.3	0.74
Model 3	28.5	1.7	29.0	1.7	28.2	1.7	30.1	1.7	0.73
Prospective intake (mm)									
Model 2	28.2	3.2	29.2	3.2	29.1	3.2	30.5	3.2	0.83
Model 3	27.7	1.6	28.4	1.6	28.5	1.6	29.7	1.6	0.84
Overall Appetite									
Model 2	29.9	3.22	31.8	3.2	29.7	3.2	31.7	3.2	0.732
Model 3	29.6	1.6	31.4	1.6	29.4	1.6	31.4	1.6	0.70
Intake									
Legume mezzes (g)									
Model 2	70.3	8.4	69.9	8.3	69.6	8.4	68.8	8.4	0.88
Model 3	65.7	2.7	66.1	2.7	65.3	2.7	63.7	2.7	0.64
Salt free crackers (g)									
Model 2	22.8ª	2.6	21.6 ^{a,b}	3.0	20.3 ^b	3.0	22.3ª	3.0	0.02
Model 3	23.4	1.0	22.4	1.0	21.4	1.0	23.1	1.0	0.08
Starter's energy (kcal)									
Model 2	253	26	247	26	241	26	247	26	0.38
Model 3	245	9	242	9	237	9	239	9	0.64
Eating behavior									
Eating rate (bites/min)									
Model 2	2.8	0.3	2.7	0.3	3.1	0.3	3.0	0.3	0.10
Model 3	2.9	0.2	2.9	0.2	3.3	0.2	3.2	0.2	0.11
Number of bites									

Table S2. Mean subjective appetite responses using VAS, intake of the test food items in grams, and eating behavior components over the study day after the consumption of mezzes as a starter (mean values with standard errors).

Number of bites

Model 2	28.6	3.4	27.2	3.4	28.1	3.4	28.5	3.4	0.667
Model 3	26.4	1.6	26.2	1.7	26.6	1.6	27.4	1.6	0.794
Number of sips									
Model 2	4.6	1.2	3.9	1.2	4.9	1.2	4.8	1.2	0.350
Model 3	5.3	0.6	4.7	0.6	5.6	0.6	5.7	0.6	0.335
Consumption time (min)									
Model 2	11.3	1.1	10.5	1.1	10.5	1.1	11.0	1.1	0.440
Model 3	9.1	0.6	8.6	0.6	8.5	0.6	9.1	0.6	0.621

Model 2: adjusted for visit, test product, and time for all outcomes and additionally for the baseline values for the appetite profile variables, gender, overall liking, taste liking, BMI, gender × test product interaction, frequency of legume consumption, frequency of adding salt while cooking, frequency of adding H&S while cooking, score for the Salt Intake questionnaire, and score for the TFEQ Factor 1. Model 3 was the same as model 2, excluding the variables without a significant effect.

S, standard-salt legume-based mezze; *LS*, low-salt legume-based mezze without herbs and spices; *SHS*, standard-salt legume-based mezze with herbs and spices; *LSHS*, low-salt legume-based mezze with herbs and spices.

^{a,b,c} Mean values within a row with different superscript letters were significantly different (p < 0.05, ANCOVA followed by Tukey's post hoc test).

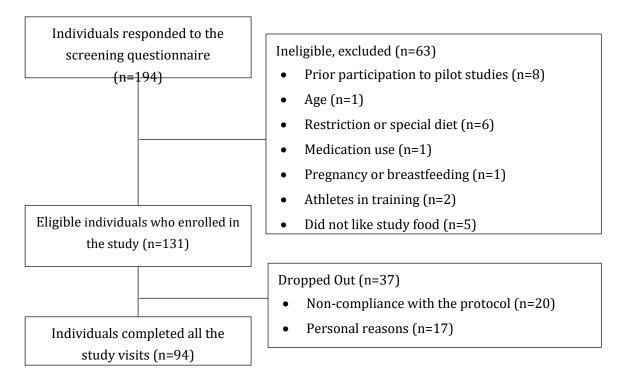


Figure S1. Participants' flow diagram of the cross-over study in phase II.

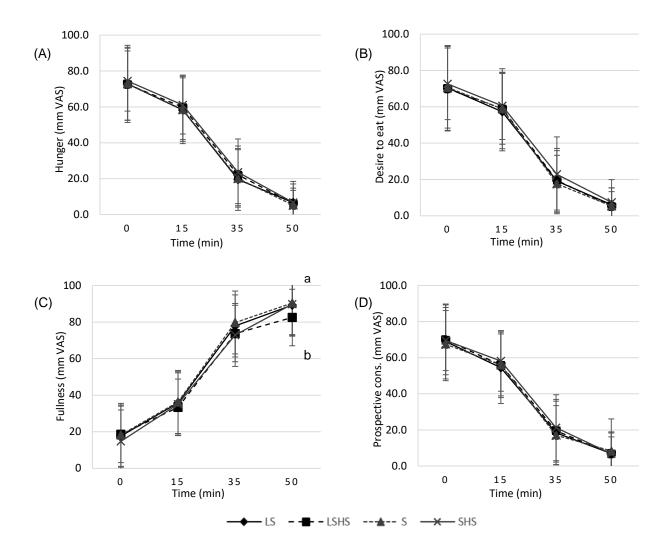


Figure S2. Subjective visual analogue scale (VAS) ratings in mm for (A) hunger, (B) desire to eat, (C) fullness, and (D) prospective food consumption throughout the study following the intake of the four versions of the cumin blend legume-based mezze, each being presented in different sessions, one week apart. S, standard-salt legume-based mezze; LS, low-salt legume-based mezze without herbs and spices; SHS, standard-salt legume-based mezze with herbs and spices; LSHS, low-salt legume-based mezze with herbs and spices. Mean values (with their standard deviation represented by vertical bars) with different superscript letters at each time point were significantly different (p < 0.05, ANCOVA followed by Tukey's post hoc test).