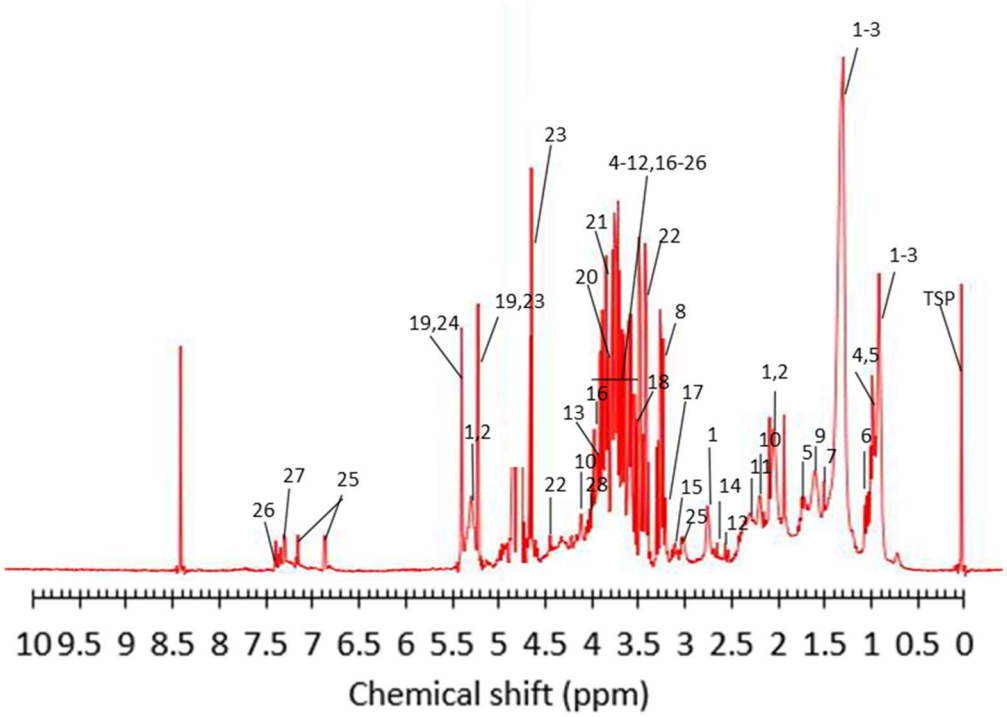

Fig. S1. Metabolite identification of a representative plant-based egg (PS6) after *in vitro* digestion. *1, Linoleic acid; 2, Oleic acid; 3, Palmitic acid; 4, Ile; 5, Leu; 6, Val; 7, Ala; 8, Arg; 9, Thr; 10, Pro; 11, Gln; 12, Met; 13, Cys; 14, Asp; 15, Abu; 16, Asn; 17, Choline; 18, Gly; 19, Maltose; 20, Ser; 21, Fructose; 22, β-D-Glucose; 23, α-D-Glucose; 24, Sucrose; 25, Tyr; 26, Phe; 27, Trp; 28, His. *PS6 refers to plant-based liquid egg with the addition of 6% potato starch (w/w).

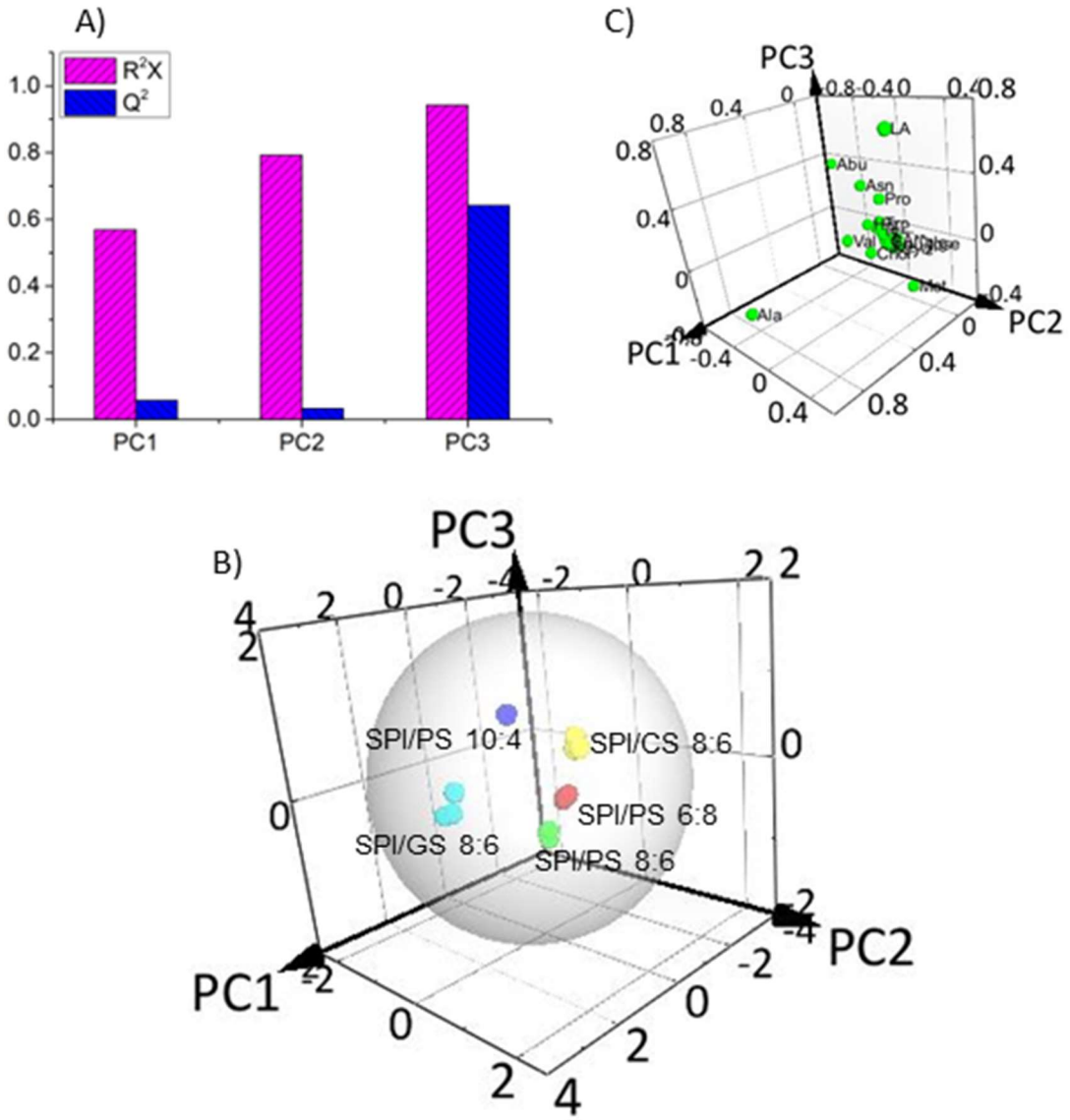

Fig. S2. (A) Principal components that explained the variances in principal components analysis (PCA); (B) PCA score plot; (C) PCA loading plot. *LA, linoleic acid; OA, oleic acid; PA, palmitic acid; Ile, isoleucine; Leu, leucine; Val, valine; Ala, alanine; Arg, arginine; Thr, threonine; Pro, proline; Gln, glutamine; Met, methionine; Cys, cysteine; Asp, aspartic acid; Abu, aminobutyric acid; Asn, asparagine; Chol, choline; Gly, glycine; Ser, serine; β-D-glc, β-D-glucose; α-D-glc, α-D-glucose; Tyr, tyrosine; Phe, phenylalanine; Trp, tryptophan; His, histidine. *SPI/PS 8:6, SPI/CS 8:6, SPI/GS 8:6, SPI/PS 10:4, and SPI/PS 6:8 refer to the plant-based eggs with the addition of 8% soy protein isolate and 6% potato starch, 8% soy protein isolate and 6% corn starch, 8% soy protein isolate and 6% glutinous rice starch, 10% soy protein isolate and 4% potato starch, and 6% soy protein isolate and 8% potato starch (w/w), respectively.

Table S1. Metabolites identified in the plant-based eggs after *in vitro* digestion.

	Metabolites	Assignments	^{1}H chemical shifts (ppm) and multiplicity*	^{13}C chemical shifts (ppm)
1	Linoleic acid	C_9H, $C_{10}H$, $C_{12}H$, $C_{13}H$; $C_{11}H_2$; C_2H_2; C_8H_2, $C_{14}H_2$; C_3H_2; C_4H_2-C_7H_2, $C_{15}H_2$-$C_{17}H_2$; $C_{18}H_3$	**5.37** (m); **2.76** (t); **2.36** (t); **2.01** (m); 1.65 (m); **1.28** (m); **0.89** (t)	**129.7**; **25.6**; **33.9**; **27.2**; **24.5**; **31.7**, **29.0**, **22.7**; **14.1**
2	Oleic acid	$C_{11}H_2$; C_3H_2; C_8H_2, $C_{11}H_2$; C_9H, $C_{10}H$; C_4H_2-C_7H_2, $C_{12}H_2$-$C_{16}H_2$; $C_{18}H_3$	**2.36** (t); 1.65 (m); **2.01** (m); **5.34** (m); **1.28** (m); **0.89** (t)	**33.9**; **24.5**; **27.2**; **129.7**; **31.7**, **29.0**, **22.7**; **14.1**
3	Palmitic acid	C_2H_2; C_3H_2; C_4H_2-$C_{15}H_2$; $C_{16}H_3$	**2.36** (t); 1.65 (m); **1.28** (m); **0.89** (t)	**33.9**; **24.5**; **31.7**, **29.0**, **22.7**; **14.1;**
4	Isoleucine	αCH; βCH; γCH_2; γ'CH_3; δCH_3	**3.67** (d); 1.95 (m); 1.46 (m); **0.96** (d); **0.93** (t)	**62.6**; 38.6; **25.6**; **18.0**; **14.0**
5	Leucine	αCH; βCH_2, γCH; δCH_3, δ'CH_3	**3.72** (m); **1.70** (m); **0.96** (t)	**55.7**; **40.5**, **26.5**; **23.0**, **21.6**
6	Valine	αCH; βCH; γCH_3; γ'CH_3	**3.60** (d); **2.25** (m); **0.98** (d); **1.04** (d)	**63.0**; **31.5**; **18.0**; **20.1**
7	Alanine	αCH; βCH_3	**3.78** (q); **1.48** (d)	**53.5**; **17.5**
8	Arginine	αCH; βCH_2; γCH_2; δCH_2	**3.76** (t); **1.91** (dd); **1.68** (m); **3.24** (t)	**57.3**; **30.5**; **26.5**; 43.3
9	Threonine	αCH; βCH; γCH_3	**3.60** (d); 4.26 (m); **1.56** (d)	**63.10**; **68.93**; 22.89
10	Proline	CH; βCH_2; γCH_2	**4.12** (dd); **2.33**, **2.12** (m); **2.02** (m)	**63.4**; **31.5**; **26.9**
11	Glutamine	αCH; βCH_2; γCH_2	**3.77** (m); **2.15** (m); 2.44 (m)	**57.2**; **28.9**; **31.5**
12	Methionine	αCH; βCH_2; γCH_2; SCH_3	**3.76** (dd); **2.17**(m); **2.56** (t); 2.13 (m)	**57.17**; **32.68**; 31.58; **16.84**
13	Cysteine	NCH; SCH_2	**3.97** (dd); **2.76** (m)	**58.88**; **26.18**
14	Aspartic acid	αCH; βCH_2	**3.81** (dd); **2.67** (m), 2.82 (m)	**55.1**; **38.7**
15	γ-aminobutyric acid	αCH2; βCH2; γCH2	**2.28** (t); **1.90** (m); **3.13** (t)	39.27; **26.33**; **41.99**
16	Asparagine	αCH; βCH_2	**3.99** (q); 2.88 (dd)	**54.0**; 36.4
17	Choline	-N-$(CH_3)_3$; -N-CH_2; -O-CH_2	**3.21** (s); **3.52** (m); **4.01** (m)	**54.9**; **69.7;** 56.2
18	Glycine	CH_2	**3.55** (s)	**46.3**

19	Maltose	$^{1}C_1H$; $^{1}C_2H$; $^{1}C_3H$; $^{1}C_4H$; $^{1}C_5H$; $^{1}C_6H_2$; $^{2}C_1H$; $^{2}C_2H$; $^{2}C_3H$; $^{2}C_4H$; $^{2\alpha\beta}C_5H$; $^{2}C_6H_2$	**5.24** (d); **3.70** (m); **3.54** (t); **3.42** (t); **3.68** (m); **3.76** (m); **5.42** (dd); 3.33 (t); **3.91** (m); **3.70** (m); 3.67, **3.83** (m); **3.82** (m)	**96.2**; **73.3**; **74.8**; **72.4**; **75.5**; **63.5**; **102.5**; **75.3**; **73.9**; **75.4**; **71.6**, **69.9**; **62.6**
20	Serine	αCH; βCH$_2$	**3.83** (t); **3.94** (m)	**60.7**; **62.4**
21	Fructose	C_1H_2; C_2H; C_3H; C_4H; C_6H_2	**3.63** (m); **3.93** (m); **3.87** (m); **3.89** (d); **3.71** (d)	**62.3**; **71.9**; **68.0**; **73.3**; **67.2**
22	β-D-Glucose	C_1H_2; C_2H; C_3H; C_4H; C_5H; C_6H	**3.70** (m); **3.52** (m); **3.46** (m); **3.39** (m); **3.24** (dd); 4.45 (d)	**63.4**; **74.6**; 77.5; **72.4**; 76.4; **96.5**
23	α-D-Glucose	C_1H_2; C_2H; C_3H; C_4H; C_5H; C_6H	**3.78** (m); **3.82** (m); **3.49** (m); **3.71** (m); **3.70** (m); **5.24** (d)	**62.5**; **72.6**; **72.7**; **73.7**; **63.1**; **92.2**
24	Sucrose	$^{1}C_1H$; $^{1}C_2H$; $^{1}C_3H$; $^{1}C_4H$; $^{1}C_5H$; $^{1}C_6H_2$; $^{2}C_1H_2$; $^{2}C_2H$; $^{2}C_3H$; $^{2}C_4H$; $^{2}C_5H$; $^{2}C_6H_2$	**5.42** (d); **3.47** (t); **3.55** (dd); **3.42**, **3.51** (t); **3.84** (m); **3.59** (dd); **3.59** (dd); **3.93** (m); **4.05** (t); 4.21 (d); **3.57** (dd)	**92.2**; **71.9**; **75.4**; **71.8**, **71.0**; **73.1**; **62.4**; **64.0**; 82.0; 76.7; **76.9**; **72.6**
25	Tyrosine	C_1H; C_2H_2; C_4H; C_5H	**3.90** (dd); **3.01** (m), 3.17 (dd); **7.19** (d); **6.90** (m)	**58.9**; **39.0**; **131.1**; **116.2**
26	Phenylalanine	C_1H; C_2H_2; C_4H; C_5H; C_6H	**3.97** (m); **3.27** (m); **7.31** (m); **7.41** (m); **7.36** (m)	**56.7**; **40.5**; **130.1**; **129.1**; **128.6**
27	Tryptophan	C_1H; C_2H_2; NC_4H; C_6H; C_7H; C_8H; C_9H	**4.01** (dd)**;** **3.46** (m), **3.29** (dd); 7.71 (d); 7.53 (d); **7.31** (s)**;** 7.23 (m)**;** **7.20** (m)	56.2; **29.10**; 118.7; **112.5**; **127.1**; 121.9; **119.4**;
28	Histidine	αCH; βCH$_2$; NCHC; NCHN	**4.00** (dd); **3.15** (d); 7.12 (s); 7.92 (s)	**57.10**; **30.5**; 119; 138

*Multiplicity: s, singlet; d, doublet; t, triplet; q, quartet; dd, doublet of doublets; m, multiplet.

*Bold chemical shifts indicate an identified peak in the spectra.