

**Table S1.** Amino acid concentration (g/100 g protein) in native and acetylated PPC.

Amino Acids	Native RPC	Anhydride-to-Protein Ratio (mL/g)		
		0.4	1.0	2.0
IAA *				
Leucine	6.53 ± 0.53 <sup>a</sup>	6.58 ± 0.03 <sup>a</sup>	6.21 ± 0.31 <sup>a</sup>	6.70 ± 0.21 <sup>a</sup>
Isoleucine	3.89 ± 0.04 <sup>a</sup>	3.87 ± 0.02 <sup>a</sup>	8.82 ± 0.02 <sup>a</sup>	4.07 ± 0.19 <sup>a</sup>
Methionine	2.60 ± 0.11 <sup>a</sup>	2.52 ± 0.01 <sup>a</sup>	2.47 ± 0.04 <sup>a</sup>	2.65 ± 0.16 <sup>a</sup>
Cysteine	2.58 ± 0.12 <sup>a</sup>	2.55 ± 0.07 <sup>a</sup>	2.57 ± 0.08 <sup>a</sup>	2.78 ± 0.22 <sup>a</sup>
Phenylalanine	4.89 ± 0.10 <sup>a</sup>	4.81 ± 0.01 <sup>a</sup>	4.74 ± 0.05 <sup>a</sup>	5.04 ± 0.27 <sup>a</sup>
Threonine	3.84 ± 0.18 <sup>a</sup>	3.70 ± 0.00 <sup>a</sup>	3.70 ± 0.05 <sup>a</sup>	3.94 ± 0.22 <sup>a</sup>
Lysine	3.43 ± 0.06 <sup>a</sup>	3.34 ± 0.03 <sup>a</sup>	3.31 ± 0.03 <sup>a</sup>	3.47 ± 0.10 <sup>a</sup>
Tyrosine	4.44 ± 0.09 <sup>a</sup>	4.42 ± 0.03 <sup>a</sup>	4.32 ± 0.04 <sup>a</sup>	4.61 ± 0.25 <sup>a</sup>
Valine	7.14 ± 0.02 <sup>a</sup>	7.12 ± 0.04 <sup>a</sup>	7.08 ± 0.07 <sup>a</sup>	7.47 ± 0.34 <sup>a</sup>
DAA **				
Aspartic acid	8.90 ± 0.24 <sup>a</sup>	8.72 ± 0.04 <sup>a</sup>	8.53 ± 0.08 <sup>a</sup>	9.06 ± 0.45 <sup>a</sup>
Glutamic acid	17.05 ± 1.36 <sup>a</sup>	17.73 ± 0.18 <sup>a</sup>	15.87 ± 0.67 <sup>a</sup>	16.32 ± 0.14 <sup>a</sup>
Serine	5.45 ± 0.31 <sup>a</sup>	5.27 ± 0.04 <sup>a</sup>	5.17 ± 0.02 <sup>a</sup>	5.48 ± 0.28 <sup>a</sup>
Glycine	4.57 ± 0.22 <sup>a</sup>	4.53 ± 0.01 <sup>a</sup>	4.39 ± 0.03 <sup>a</sup>	4.65 ± 0.18 <sup>a</sup>
Alanine	6.14 ± 0.32 <sup>a</sup>	6.05 ± 0.02 <sup>a</sup>	5.81 ± 0.16 <sup>a</sup>	6.25 ± 0.23 <sup>a</sup>
Histidine	2.21 ± 0.09 <sup>a</sup>	2.18 ± 0.02 <sup>a</sup>	2.12 ± 0.07 <sup>b</sup>	2.14 ± 0.09 <sup>b</sup>
Arginine	6.87 ± 0.17 <sup>a</sup>	6.79 ± 0.01 <sup>a</sup>	6.66 ± 0.01 <sup>a</sup>	7.04 ± 0.37 <sup>a</sup>
Proline	1.50 ± 0.11 <sup>a</sup>	1.91 ± 0.17 <sup>a</sup>	1.40 ± 0.01 <sup>a</sup>	0.85 ± 0.13 <sup>a</sup>
Total amino acids	92.03 ± 3.86 <sup>a</sup>	92.11 ± 0.35 <sup>a</sup>	88.17 ± 0.66 <sup>a</sup>	95.52 ± 3.55 <sup>a</sup>

values are means ± standard deviation;  $n = 3$ ; <sup>a,b</sup>—the same letter in verse mean homogenous group; IAA \*—indispensable amino acids; DAA \*\*—dispensable amino acids.

**Table S2.** Results of the foam stability (FS, %) at different pH of native and acetylated RPC.

Foam Stability (%)				
Type of Preparation	Time	2	pH 8	12
Native RPC	5 min	16	21	27.5
	10 min	15.5	16	25.5
	30 min	14.5	6.5	22.5
	60 min	7	5.5	17
Anhydride-to-Protein Ratio (mL/g)	0.4	5 min	7.5	8.5
		10 min	6.5	8
		30 min	5	5.5
		60 min	5	4.5
	1.0	5 min	5.5	6.5
		10 min	4.5	6
		30 min	3.5	5
		60 min	2.5	0.5
	2.0	5 min	6.5	5
		10 min	5.5	3
		30 min	5	1
		60 min	2.5	0

RPC—rice protein concentrate; 0.4, 1.0, 2.0—rice protein preparations after acetylation conducted with different concentrations of acetic anhydride.