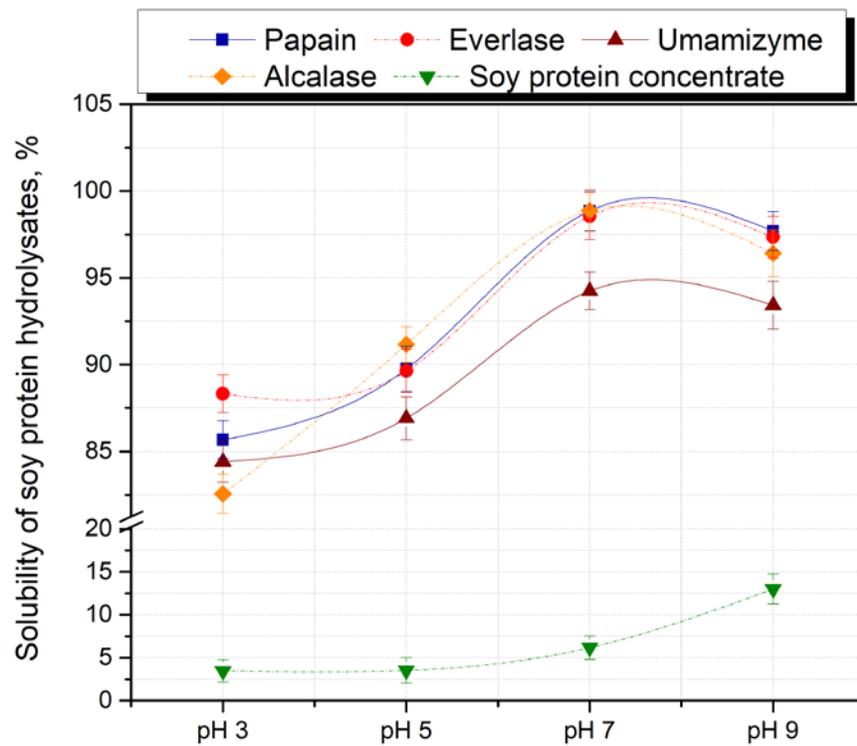
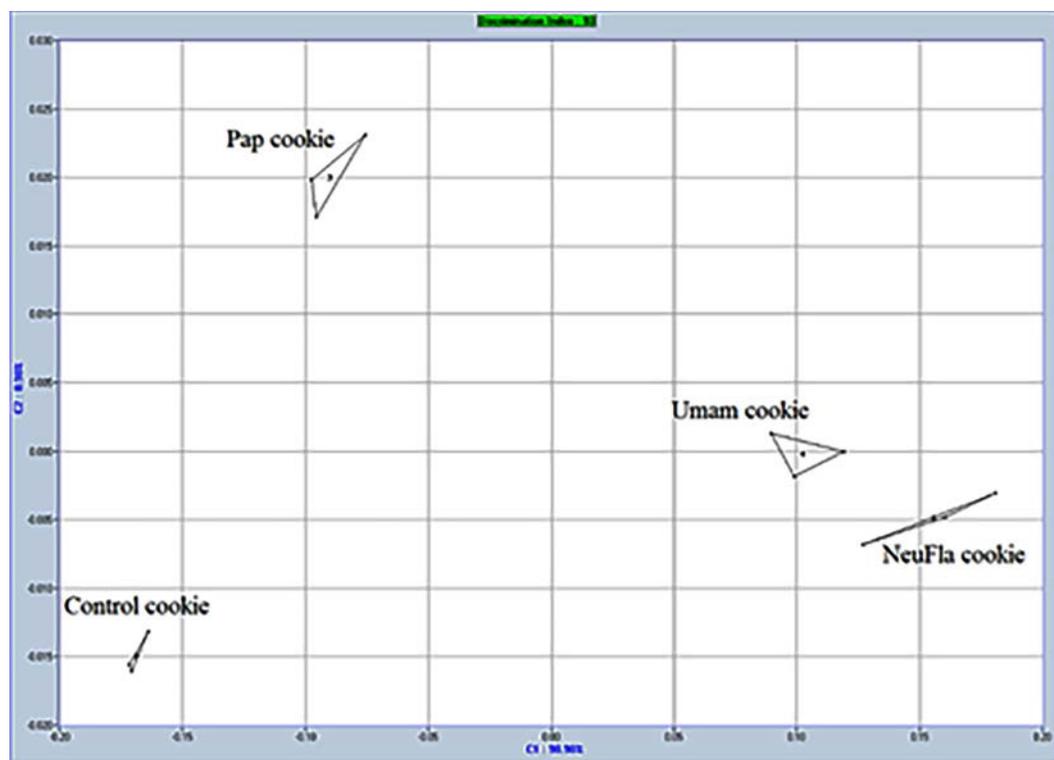


**Supplementary Materials:** Supporting information may be found in the online version of this article (Table S1, Figures S1 and S2).



**Figure S1:** The solubility of soy protein hydrolysates obtained with different enzymes at different pH.



**Figure S2:** PCA plot of traditional cookie with wheat flour (control) and the cookie with added Pap, Umam and NeuFlav hydrolysates.

**Table S1:** Comparative results of amino acid composition of traditional cookie with wheat flour (control) and the cookie with added Pap, Umam and NeuFlav hydrolysates. Results are expressed as means  $\pm$  standard deviation ( $n = 2$ ).

	Amino acid content, g/100 g			
	SPC	Pap	Umam	NeuFlav
Arginine	9.90 $\pm$ 0.08	11.3 $\pm$ 0.11	10.6 $\pm$ 0.09	10.9 $\pm$ 0.08
Lysine	6.33 $\pm$ 0.04	7.15 $\pm$ 0.14	7.72 $\pm$ 0.10	7.66 $\pm$ 0.12
Alanine	6.74 $\pm$ 0.06	9.09 $\pm$ 0.10	4.91 $\pm$ 0.15	6.10 $\pm$ 0.08
Threonine	4.40 $\pm$ 0.04	4.73 $\pm$ 0.11	4.44 $\pm$ 0.08	4.66 $\pm$ 0.10
Glycine	4.13 $\pm$ 0.04	4.24 $\pm$ 0.06	4.09 $\pm$ 0.06	4.22 $\pm$ 0.06
Valine	4.95 $\pm$ 0.04	4.85 $\pm$ 0.12	5.73 $\pm$ 0.10	5.10 $\pm$ 0.09
Serine	6.88 $\pm$ 0.08	7.03 $\pm$ 0.09	6.78 $\pm$ 0.10	7.10 $\pm$ 0.10
Proline	11.00 $\pm$ 0.04	10.18 $\pm$ 0.09	10.64 $\pm$ 0.10	10.76 $\pm$ 0.08
Isoleucine	3.99 $\pm$ 0.04	4.48 $\pm$ 0.09	5.03 $\pm$ 0.04	4.44 $\pm$ 0.10
Leucine	8.67 $\pm$ 0.13	8.73 $\pm$ 0.11	9.24 $\pm$ 0.13	8.88 $\pm$ 0.80
Methionine	1.65 $\pm$ 0.06	1.94 $\pm$ 0.06	0.82 $\pm$ 0.08	1.55 $\pm$ 0.06
Histidine	1.38 $\pm$ 0.06	2.06 $\pm$ 0.10	1.87 $\pm$ 0.06	2.00 $\pm$ 0.06
Phenylalanine	3.99 $\pm$ 0.08	4.00 $\pm$ 0.11	4.09 $\pm$ 0.04	4.10 $\pm$ 0.04
Glutamic acid	18.70 $\pm$ 0.05	13.45 $\pm$ 0.12	16.14 $\pm$ 0.18	15.32 $\pm$ 0.08
Aspartic acid	3.58 $\pm$ 0.04	3.15 $\pm$ 0.04	4.56 $\pm$ 0.11	4.11 $\pm$ 0.05
Cystine	1.24 $\pm$ 0.04	1.33 $\pm$ 0.02	0.82 $\pm$ 0.04	0.78 $\pm$ 0.09
Tyrosine	2.48 $\pm$ 0.11	2.30 $\pm$ 0.14	2.46 $\pm$ 0.20	2.33 $\pm$ 0.30

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ΣΕΑΑ	35.36	37.94	38.94	38.39
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