

Supplementary material for the article:

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**Table S1.** HPLC and MS Parameters for analyses of amino acids and phenolics.

<b>HPLC Parameters</b>			<b>MS Parameters</b>		
<b>Parameters</b>	<b>Amino acid analysis</b>	<b>Phenolic analysis</b>	<b>Parameters</b>	<b>Amino acid analysis</b>	<b>Phenolic analysis</b>
<i>Column</i>	Jasem amino acid column	Agilent Zorbax SB-C8 (150 mm x 3.0 mm x 3.5 $\mu$ m)	<i>Ionization mode</i>	ESI Positive	ESI negative
<i>Mobile phase A</i>	5 mM ammonium formate, 2% formic acid in water	5 Mm ammonium acetate in water	<i>Gas temperature</i>	275 °C	300 °C
<i>Mobile phase B</i>	0.1% formic acid in acetonitrile	Acetic acid (1%) in 1:1 acetonitrile-methanol	<i>Gas flow</i>	10 L/min	10 L/min
<i>Autosampler temperature</i>	4 °C	4 C	<i>Nebulizer</i>	45 psi	40 psi
<i>Flow rate</i>	1.0 mL/min	0.7 mL/min	<i>Sheath gas temperature</i>	375 °C	400 C
<i>Column temperature</i>	35 °C	35 °C	<i>Sheath gas flow</i>	10 L/min	10 L/min
<i>Injection volume</i>	5 $\mu$ L	10 $\mu$ L	<i>Capillary voltage</i>	2500 V	3500 V
<i>Total run time</i>	10 minutes	12 min	<i>Nozzle voltage</i>	0 V	0 V
			<i>Scan type</i>	Dynamic multiple reaction monitoring	Dynamic multiple reaction monitoring