

**Table S1.** Trace mineral concentrations in plasma after 30, 60 and 90 days of Zn supplementation (80 mg Zn/kg).

Parameters		Dietary treatments <sup>1</sup>				SEM	<i>P</i> -value <sup>2</sup>		
		C	ZnSO <sub>4</sub>	ZnGly	ZnProt		Zn	Period	Zn x P
Zn, mg/L									
Day	0	0.813	0.837	0.913	0.922	0.0241	0.0163	<0.0001	0.8682
	30	0.895	0.958	1.000	1.007	0.0183			
	60	0.892	0.948	0.962	0.924	0.0205			
	90	0.895	0.952	1.079	1.052	0.0174			
Cu, mg/L									
Day	0	0.653	0.672	0.677	0.612	0.0276	0.9147	<0.0001	0.0754
	30	0.668	0.608	0.683	0.743	0.0296			
	60	0.797	0.768	0.775	0.725	0.0205			
	90	0.625	0.663	0.653	0.602	0.0176			
Fe, mg/L									
Day	0	1.668	1.913	1.692	1.873	0.0535	0.9403	<0.0001	0.8316
	30	1.795	1.738	1.828	1.800	0.0557			
	60	2.777	2.720	2.802	2.683	0.0956			
	90	2.455	2.527	2.347	2.602	0.0710			

<sup>1</sup>C: basal diet, ZnSO<sub>4</sub>: zinc sulphate, ZnGly: zinc chelate of glycine hydrate, ZnProt: zinc chelate of protein hydrolysate

<sup>2</sup>Values (n = 6/treatment) are presented as least-squares means.

Data were analyzed using two-way repeated measures ANOVA with the Geisser-Greenhouse correction, followed by the post hoc Tukey's multiple comparisons test, included the effects for treatment, period and their interaction.