

## Supplementary file

**Table S1.** Validation parameters of HPLC method; (LOD = limit of detection, LOQ = limit of quantification,  $r^2$  = coefficient of correlation, SD = standard deviation, RSD = relative standard deviation).

Parameters		Muscle	Liver	Kidney
ZEL				
LOD ( $\mu\text{g/kg}$ )		0.05	0.05	0.05
LOQ ( $\mu\text{g/kg}$ )		0.10	0.10	0.10
$r^2$		0.998	0.996	0.995
<b>Repeatability</b>				
0.1	Mean concentration $\pm$ SD	$0.064 \pm 0.004$	$0.068 \pm 0.003$	$0.069 \pm 0.001$
	RSD (%)	6.30	3.89	1.67
1.0	Mean concentration $\pm$ SD	$0.76 \pm 0.01$	$0.70 \pm 0.02$	$0.72 \pm 0.03$
	RSD (%)	2.00	2.47	4.03
5.0	Mean concentration $\pm$ SD	$3.58 \pm 0.02$	$3.60 \pm 0.05$	$3.62 \pm 0.07$
	RSD (%)	0.65	1.25	2.00
<b>Reproducibility</b>				
0.1	Mean concentration $\pm$ SD	$0.064 \pm 0.003$	$0.067 \pm 0.002$	$0.069 \pm 0.001$
	RSD (%)	4.56	3.33	1.74
1.0	Mean concentration $\pm$ SD	$0.75 \pm 0.02$	$0.73 \pm 0.04$	$0.73 \pm 0.02$
	RSD (%)	2.90	5.14	3.46
5.0	Mean concentration $\pm$ SD	$3.65 \pm 0.08$	$3.62 \pm 0.03$	$3.60 \pm 0.05$
	RSD (%)	2.30	1.63	1.50
<b>Recovery %</b>				
0.1		$63.67 \pm 2.87$	$66.83 \pm 2.30$	$69.33 \pm 1.21$
		$74.67 \pm 2.16$	$73.17 \pm 3.76$	$73.00 \pm 2.53$
5.0		$71.33 \pm 1.62$	$72.43 \pm 0.89$	$71.93 \pm 2.09$
<b><math>\alpha</math>-ZEL</b>				
LOD ( $\mu\text{g/kg}$ )		0.05	0.05	0.05
LOQ ( $\mu\text{g/kg}$ )		0.10	0.10	0.10
$r^2$		0.992	0.993	0.995
<b>Repeatability</b>				
0.1	Mean concentration $\pm$ SD	$0.075 \pm 0.004$	$0.067 \pm 0.002$	$0.069 \pm 0.002$
	RSD (%)	5.58	3.12	3.83
1.0	Mean concentration $\pm$ SD	$0.73 \pm 0.02$	$0.69 \pm 0.01$	$0.70 \pm 0.01$
	RSD (%)	2.86	2.20	1.50
5.0	Mean concentration $\pm$ SD	$3.71 \pm 0.03$	$3.63 \pm 0.05$	$3.75 \pm 0.05$
	RSD (%)	1.86	1.59	2.60
<b>Reproducibility</b>				
0.1	Mean concentration $\pm$ SD	$0.072 \pm 0.004$	$0.068 \pm 0.002$	$0.070 \pm 0.003$
	RSD (%)	5.07	3.77	4.88
1.0	Mean concentration $\pm$ SD	$0.72 \pm 0.03$	$0.71 \pm 0.05$	$0.73 \pm 0.05$
	RSD (%)	2.89	3.86	4.12
5.0	Mean concentration $\pm$ SD	$3.68 \pm 0.05$	$3.59 \pm 0.06$	$3.71 \pm 0.08$
	RSD (%)	2.46	2.72	3.14
<b>Recovery %</b>				
0.1		$72.50 \pm 3.68$	$67.50 \pm 2.87$	$70.33 \pm 2.73$
		$71.67 \pm 2.96$	$71.33 \pm 2.73$	$69.83 \pm 1.56$
5.0		$73.47 \pm 2.30$	$71.80 \pm 1.24$	$74.27 \pm 2.58$
<b><math>\beta</math>-ZEL</b>				
LOD ( $\mu\text{g/kg}$ )		0.10	0.10	0.10
LOQ ( $\mu\text{g/kg}$ )		0.25	0.25	0.25
$r^2$		0.993	0.996	0.991
<b>Repeatability</b>				
0.1	Mean concentration $\pm$ SD	$0.063 \pm 0.002$	$0.074 \pm 0.003$	$0.070 \pm 0.002$
	RSD (%)	4.02	4.45	2.85
1.0	Mean concentration $\pm$ SD	$0.75 \pm 0.02$	$0.73 \pm 0.03$	$0.68 \pm 0.03$

5.0	RSD (%)	2.86	2.20	1.50
	Mean concentration $\pm$ SD	3.61 $\pm$ 0.05	3.64 $\pm$ 0.05	3.59 $\pm$ 0.08
	RSD (%)	2.39	2.88	3.63
<b>Reproducibility</b>				
0.1	Mean concentration $\pm$ SD	0.063 $\pm$ 0.002	0.072 $\pm$ 0.005	0.071 $\pm$ 0.003
	RSD (%)	3.01	6.01	4.37
1.0	Mean concentration $\pm$ SD	0.74 $\pm$ 0.04	0.74 $\pm$ 0.03	0.69 $\pm$ 0.05
	RSD (%)	4.58	3.36	4.59
5.0	Mean concentration $\pm$ SD	3.64 $\pm$ 0.06	3.66 $\pm$ 0.04	3.60 $\pm$ 0.05
	RSD (%)	2.65	2.06	2.45
<b>Recovery %</b>				
0.1		63.00 $\pm$ 3.89	72.43 $\pm$ 4.35	72.50 $\pm$ 3.20
1.0		74.50 $\pm$ 2.67	73.83 $\pm$ 2.48	69.17 $\pm$ 2.48
5.0		72.70 $\pm$ 2.20	73.90 $\pm$ 1.77	73.13 $\pm$ 3.33