Table S1. Correlation between analysed tissues of animals with normal Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		-0.438	-0.218	-0.139	-0.113	-0.048	-0.402	-0.028
The longest back muscle	*		0.490	0.249	0.210	0.121	0.349	0.235
Semitendegen muscle		*		0.148	0.260	-0.269	0.121	0.241
Kidney					0.080	0.012	0.331	0.409
Lungs						0.146	0.197	0.175
Heart							0.336	-0.333
Spleen	*							0.334
Liver				*				

* - Correlation statistically significant differences at p<0.05 between organ.

Table S2. Correlation between analysed tissues of animals with deficient Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		0.601	0.615	0.561	0.597	0.573	0.451	0.458
The longest back muscle			0.437	0.341	0.489	0.345	0.260	0.179
Semitendegen muscle				0.039	0.419	0.381	0.211	0.277
Kidney					0.378	0.432	0.338	0.509
Lungs						0.838	0.450	0.756
Heart							0.512	0.820
Spleen								0.459
Liver								

* - Correlation statistically significant differences at p<0.05 between organ.

Table S3. Correlation between analysed tissues of cow with normal Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		0.285	0.652	0.450	0.615	0.493	0.112	0.404
The longest back muscle			0.600	-0.064	0.222	0.288	0.451	0.618
Semitendegen muscle	*	*		0.300	0.679	0.365	0.505	0.657
Kidney	*				0.413	0.268	0.294	0.187
Lungs	*		*			0.536	0.447	0.640
Heart	*				*		0.510	0.314
Spleen		*	*		*	*		0.413
Liver		*	*		*			

Table S4. Correlation between analysed tissues of cow with deficient Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		0.270	0.706	0.339	0.519	0.671	0.385	0.377
The longest back muscle			0.650	-0.209	0.726	0.698	0.685	0.774
Semitendegen muscle	*			0.107	0.764	0.911	0.754	0.762
Kidney					0.031	0.141	0.228	0.162
Lungs		*	*			0.945	0.848	0.829
Heart	*	*	*		*		0.866	0.851
Spleen		*	*		*	*		0.843
Liver		*	*		*	*	*	

* - Correlation statistically significant differences at p<0.05 between organ.

Table S5. Correlation between analysed tissues of bulls with normal Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		-0.388	-0.212	-0.133	-0.239	-0.287	-0.733	-0.040
The longest back muscle			0.682	0.580	0.319	0.572	0.287	-0.079
Semitendegen muscle	*			0.311	0.329	0.307	0.091	0.048
Kidney		*			0.016	0.425	0.274	0.002
Lungs						0.349	-0.013	-0.182
Heart		*					0.146	-0.452
Spleen	*							0.476
Liver								

* - Correlation statistically significant differences at p<0.05 between organ.

Table S6. Correlation between analysed tissues of bulls with deficient Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		0.723	0.756	0.599	0.825	0.932	0.436	0.914
The longest back muscle			0.602	0.624	0.899	0.810	0.423	0.768
Semitendegen muscle	*			0.376	0.551	0.812	0.032	0.833
Kidney					0.546	0.657	0.386	0.662
Lungs	*	*				0.894	0.326	0.689

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Heart	*	*	*		*		0.209	0.851
Spleen								0.498
Liver	*	*	*			*		

* - Correlation statistically significant differences at p<0.05 between organ.

Table S7. Correlation between analysed tissues of heifers with normal Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		0.134	0.169	-0.341	-0.386	-0.257	-0.378	0.049
The longest back muscle			0.405	0.351	0.667	0.566	0.597	0.505
Semitendegen muscle				0.014	0.168	-0.042	0.313	0.192
Kidney					0.713	0.648	0.668	0.276
Lungs						0.948	0.975	0.740
Heart						*	0.911	0.839
Spleen						*	*	0.783
Liver							*	*

* - Correlation statistically significant differences at p<0.05 between organ.

Table S8. Correlation between analysed tissues of heifers with deficient Se status using Pearson R Correlation

Tissue	Serum	The longest back muscle	Semitendegen muscle	Kidney	Lungs	Heart	Spleen	Liver
Serum		0.124	0.591	0.442	0.403	0.529	0.553	0.381
The longest back muscle			0.165	0.207	0.478	0.211	0.462	-0.066
Semitendegen muscle				0.549	0.129	-0.050	0.234	0.043
Kidney					0.624	0.035	0.621	0.272
Lungs						0.563	0.666	0.718
Heart							0.670	0.764
Spleen								0.494
Liver						*	*	

* - Correlation statistically significant differences at p<0.05 between organ.