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TECO Hyaluronic Acid Plus ELISA (TE1017-2): Dilution and spike recovery in mouse samples

In order to test if mouse samples can be used in the TECO Hyaluronic Acid Plus ELISA a dilution and spike recovery experiment was performed in 5 mouse serum samples.

The assay procedure of the TECO Hyaluronic Acid Plus ELISA is based on a 1:50 standard dilution of standards, controls and patient sample, so the results can be read off the calibration curve without taking any dilution factor into account.

The results are summarized in Table 1 and 2

Table 1: Dilution recovery of mouse serum samples (not corrected by dilution factor)

Mouse ID	Dilution	Measured (ng/ml)	Expected (ng/ml)	Recovery (%)
m1	1:4	315		
	1:8	170	158	108
m4	1:4	729		
	1:8	508	365	139
m6	1:4	630		
	1:8	349	315	111
m9	1:4	278		
	1:8	151	139	108
m5	1:4	558		
	1:8	329	279	118
			Mean	116.7
			SD	13.2

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Table 2: Spike recovery (226 ng/ml) using mouse serum samples (not corrected by dilution factor)

Mouse ID	Dilution	Measured		Expected (ng/ml)	Recovery (%)
		w/o Spiking (ng/ml)	with spiking (ng/ml)		
m1	1:4	315	537	541	99
	1:8	170	394	396	100
m4	1:4	729	834	955	87
	1:8	508	711	734	97
m6	1:4	630	792	856	93
	1:8	349	546	575	95
m9	1:4	278	524	504	104
	1:8	151	394	377	105
m5	1:4	558	728	784	93
	1:8	329	536	555	97
				Mean	96.9
				SD	5.3

Conclusion:

The measurement of mouse serum in the TECO HA Plus ELISA is valid.

The samples have to be pre-diluted at least 1:4 (resulting in final dilution of 1:200).

As the calibration is between 0 and 1,000 ng/ml, we recommend a pre-dilution of the samples between 1:5 and 1:10 for untreated mice (final dilution of 1:250 and 1:500).

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