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Ultra-sensitive fully automated immunoassay for detection of propanil in aqueous samples: steps of progress toward sub-nanogram per liter detection

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Unfortunately, there were errors in the units given in Tables 1 and 3 and wrong numbers for signal, noise, and

SNR in case of “Trial 6” in Table 3 of this article. The corrected versions are given below.

Table 1 Summary of results from comparison of surface modification with all parameters of the logistic fit functions (A_1 , A_2 , x_0 , and p) and the validation parameters (LOD and LOQ) for all four calibration curves (comment: the parameter x_0 of the logistic fit function is equivalent to the test-mid point IC_{50})

Comparison	No. 1	No. 2	No. 3	No. 4
Surface	Propanil-h4	Propanil-h5	Propanil-itc	Propanil-hg
A_1 (%)	100.00	100.00	100.00	100.00
A_2 (%)	32.14	11.00	5.40	11.76
x_0 ($\mu\text{g L}^{-1}$)	0.25	0.19	0.43	0.42
p	0.98	1.02	0.85	0.95
c_{ab} (ng mL $^{-1}$)	200.0	200.0	200.0	200.0
LOD (ng L $^{-1}$)	7.9	13.5	13.4	7.6
LOQ (ng L $^{-1}$)	29.4	52.2	65.1	28.3

Table 3 Summary of the validation parameters (IC_{50} , SD_{zs} , LOD, LOQ, signal, noise, SNR, SD-range) for all six calibration curves with the different antibody concentrations (c_{AB}) between 3.1 and 100.0 ng mL $^{-1}$ a-PRN

Validation parameters	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6
c_{ab} (ng mL $^{-1}$)	100.0	50.0	25.0	12.5	6.3	3.1
IC_{50} (ng L $^{-1}$)	145	100	85	62	46	52
SD_{zs} (%)	1.58	1.25	0.81	1.91	1.30	1.29
LOD (ng L $^{-1}$)	7.8	3.2	1.2	1.5	0.8	0.6
LOQ (ng L $^{-1}$)	29.9	13.6	5.4	10.3	5.2	4.5
Signal (mean value) (μV)	71.49	36.69	23.21	10.53	5.09	2.71
Noise (mean value) (μV)	0.11	0.13	0.12	0.11	0.11	0.11
SNR	676	292	186	96	45	25
SD-range (%)	0.63–3.21	0.17–2.50	0.65–2.03	0.52–3.51	0.48–4.67	1.15–2.87

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