

Supplementary Materials: Development, Optimization, and Validation of Forensic Analytical Method for Quantification of Anticholinesterase Pesticides in Biological Matrices from Suspected Cases of Animal Poisoning

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Table S1. Mean of the line equations, correlation coefficient (r^2) and variant coefficient of the calibration curves for aldicarb for the analyzed matrices.

Matrices	Mean Line Equation	r^2 Medium	Coefficient of Variation
Standard	$y = 0.0011x - 0.0022$	0.99	0.12%
Blood	$y = 0.0011x - 0.0047$	0.99	4.66%
Stomach contents	$y = 0.0011x + 0.0107$	0.99	5.18%
Brain	$y = 0.0011x + 0.0056$	0.99	4.70%
Heart	$y = 0.001x + 0.0074$	0.99	19.68%
Liver	$y = 0.0014x - 0.0403$	0.99	7.28%
Vitreous humor	$y = 0.0012x + 0.0142$	0.99	5.08%
Lung	$y = 0.0011x + 0.0241$	0.99	4.57%
Kidneys	$y = 0.0012x + 0.013$	0.99	5.99%

Table S2. Mean of the line equations, correlation coefficient (r^2) and variant coefficient of the calibration curves for aldicarb-sulphoxide for the analyzed matrices.

Matrices	Mean Line Equation	r^2 Medium	Coefficient of Variation
Standard	$y = 0.0002x - 0.0012$	0.99	0.12%
Blood	$y = 0.0002x - 0.0015$	0.99	3.65%
Stomach contents	$y = 0.0002x + 0.0119$	0.99	2.16%
Brain	$y = 1 \times 10^{-0.4}x + 0.0144$	0.99	5.73%
Heart	$y = 0.0002x - 0.0097$	0.99	18.38%
Liver	$y = 9 \times 10^{-0.6}x + 0.0034$	0.99	4.26%
Vitreous humor	$y = 3 \times 10^{-0.5}x + 0.0008$	0.99	2.18%
Lung	$y = 0.0011x + 0.0241$	0.99	4.57%
Kidneys	$y = 4 \times 10^{-0.5}x + 0.0023$	0.99	4.99%

Table S3. Mean of the line equations, correlation coefficient (r^2) and variant coefficient of the calibration curves for aldicarb-sulphone for the matrices studied.

Matrices	Mean line equation	r^2 medium	Coefficient of variation
Standard	$y = 0.0016x + 0.0449$	0.99	0.15%
Blood	$y = 0.0017x + 0.0549$	0.99	4.67%
Stomach contents	$y = 7 \times 10^{-0.6}x + 0.0002$	0.99	4.15%
Brain	$y = 1 \times 10^{-0.5}x + 0.0005$	0.99	3.72%
Heart	$y = 7 \times 10^{-0.5}x + 0.0085$	0.99	16.98%
Liver	$y = 6 \times 10^{-0.6}x + 4 \times 10^{-0.5}$	0.99	6.48%
Vitreous humor	$y = 5 \times 10^{-0.6}x - 0.0001$	0.99	1.08%
Lung	$y = 5 \times 10^{-0.6}x + 0.0002$	0.99	3.27%

Kidneys	$y = 1 \times 10^{-0.5}x + 0.0006$	0.99	2.43%
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Table S4. Mean of the line equations, correlation coefficient (r^2) and variant coefficient of the calibration curves for carbofuran for the matrices studied.

Matrices	Mean Line Equation	r^2 Medium	Coefficient of Variation
Standard	$y = 0.0005x - 0.0077$	0.99	0.15%
Blood	$y = 0.0004x - 0.0064$	0.99	2.53%
Stomach contents	$y = 0.0004x + 0.0037$	0.99	2.07%
Brain	$y = 0.0004x - 0.0025$	0.99	3.18%
Heart	$y = 0.0003x + 0.0081$	0.99	2.81%
Liver	$y = 0.0003x - 0.0069$	0.99	1.50%
Vitreous humor	$y = 0.0003x + 0.0002$	0.99	1.22%
Lung	$y = 0.0011x + 0.0241$	0.99	4.57%
Kidneys	$y = 0.0012x + 0.013$	0.99	5.99%

Table S5. Mean of the line equations, correlation coefficient (r^2) and variant coefficient of the calibration curves for 3-OH-Carbofuran for the matrices studied.

Matrices	Mean Line Equation	r^2 Medium	Coefficient of Variation
Standard	$y = 0.0003x - 0.0007$	0.99	0.20%
Blood	$y = 0.0003x - 0.0011$	0.99	2.65%
Stomach contents	$y = 0.0003x + 0.0013$	0.99	2.53%
Brain	$y = 0.0003x + 0.0023$	0.99	4.10%
Heart	$y = 0.0002x + 0.0064$	0.99	2.03%
Liver	$y = 0.0002x + 0.0053$	0.99	3.35%
Vitreous humor	$y = 0.0002x + 0.0074$	0.99	1.92%
Lung	$y = 0.0002x + 0.0093$	0.99	8.68%
Kidneys	$y = 0.0002x + 0.0078$	0.99	10.42%

Table S6. Mean of the line equations, correlation coefficient (r^2) and variant coefficient of the calibration curves for 3-OH-Carbofuran for the matrices studied.

Matrices	Mean Line Equation	r^2 Medium	Coefficient of Variation
Standard	$y = 0.0003x - 0.0007$	0.99	0.20%
Blood	$y = 0.0003x - 0.0011$	0.99	2.65%
Stomach contents	$y = 0.0003x + 0.0013$	0.99	2.53%
Brain	$y = 0.0003x + 0.0023$	0.99	4.10%
Heart	$y = 0.0002x + 0.0064$	0.99	2.03%
Liver	$y = 0.0002x + 0.0053$	0.99	3.35%
Vitreous humor	$y = 0.0002x + 0.0074$	0.99	1.92%
Lung	$y = 0.0002x + 0.0093$	0.99	8.68%
Kidneys	$y = 0.0002x + 0.0078$	0.99	10.42%

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