

Development of a validated UPLC-MS³ method for trace-level azoxystrobin determination in zebrafish liver tissues

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Table S1. The accuracies and precisions of the UHPLC-MS³ method for determination of azoxystrobin at different concentrations. (n=18)

Azoxystrobin	Low QC	Medium QC	High QC
	0.284	3.00	9.98
	0.297	2.85	9.20
	0.299	3.20	10.10
	0.275	3.28	10.10
	0.277	3.17	10.40
	0.276	3.17	8.96
	0.274	3.29	9.88
	0.285	2.94	8.82
	0.321	3.23	9.67
	0.277	3.31	9.82
	0.318	3.33	10.60
	0.315	2.82	10.10
	0.293	2.74	10.80
	0.267	2.87	9.52
	0.324	3.13	10.70
	0.323	3.20	10.30
	0.321	3.21	11.30
	0.284	3.00	9.98
Mean (ng/mL)	0.29	3.11	10.01
SD	0.02	0.19	0.64
R.E. (%)	-3.33	3.67	0.10
intra-day C.V. (%)	6.48	5.57	5.69
inter-day C.V. (%)	9.14	8.56	10.19

Table S2. Recoveries of azoxystrobin at different concentrations. (n=4)

Recoveries (%)	Low QC	Medium QC	High QC
	101.53	107.46	100.31
	109.26	107.14	81.36
	101.97	93.12	96.99
	113.81	108.90	101.07
Mean	106.64	104.15	94.93
SD	5.95	7.40	9.22

Table S3. Matrix effects of azoxystrobin at different concentrations. (n=4)

Matrix effects (%)	Low QC	Medium QC	High QC
	111.70	103.31	106.56
	93.73	88.39	105.55
	104.60	106.66	102.27
	88.47	94.25	91.01
Mean	103.34	99.45	104.79
SD	10.48	8.36	7.13

Table S4. Stability of azoxystrobin under different conditions. (Mean \pm SD, n = 3)

Nominal Conc.(ng/mL)	Long Term	Short Term	Freeze-Thaw	Autosampler
0.3	0.31 \pm 0.01	0.31 \pm 0.02	0.32 \pm 0.01	0.31 \pm 0.02
3	2.74 \pm 0.09	2.99 \pm 0.13	2.78 \pm 0.23	3.05 \pm 0.21
10	10.23 \pm 0.15	10.40 \pm 0.36	10.55 \pm 0.62	10.18 \pm 0.53