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2 **OCHRATOXIN A DETECTION IN COFFEE: MATRIX INTEFERENCES AND IMPLICATIONS**
3 **FOR FOOD SAFETY MONITORING**

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26 Online Resource 1. OTA recovery after IAC cleanup and by LFIA in the presence of individual coffee
 27 matrix compounds.

Compound	Concentration in Extract	Recovery (HPLC-FLD) (%)†	Recovery (LFIA) (%) †
OTA Control	5.0 µg L ⁻¹ ††	98.54 ± 3.49	95.50 ± 1.52
Caffeine	200 mg L ⁻¹	84.08 ± 1.88	107.10 ± 4.16
	2000 mg L ⁻¹	86.00 ± 1.47	77.08 ± 6.63
	4000 mg L ⁻¹	65.17 ± 2.70	66.95 ± 0.12
Caffeic Acid	800 mg L ⁻¹	85.26 ± 3.70	100.63 ± 5.97
	1300 mg L ⁻¹	93.57 ± 1.32	89.14 ± 7.39
	5000 mg L ⁻¹	69.39 ± 0.37	72.40 ± 8.73
Acrylamide	0.04 mg L ⁻¹	92.22 ± 1.62	105.11 ± 3.56
	0.50 mg L ⁻¹	98.38 ± 1.80	81.96 ± 5.26
Chlorogenic Acid	800 mg L ⁻¹	98.53 ± 0.81	93.78 ± 5.00
	3000 mg L ⁻¹	110.18 ± 1.39	48.45 ± 7.71
HMF	40 mg L ⁻¹	98.53 ± 1.27	108.06 ± 5.93
	300 mg L ⁻¹	85.78 ± 0.51	59.22 ± 6.52

Compound	Concentration in Extract	Recovery (HPLC-FLD) (%)†	Recovery (LFIA) (%) †
Cafestol	150 mg L ⁻¹	101.09 ± 1.75	**
	800 mg L ⁻¹	101.09 ± 0.85	**
Melanoidins	4000 mg L ⁻¹	97.41 ± 4.02	72.57 ± 1.15
	15000 mg L ⁻¹	93.32 ± 1.45	49.40 ± 2.04
	30000 mg L ⁻¹	88.22 ± 2.12	35.74 ± 2.74
Pooled Mixture	High Level †††	93.86 ± 0.47	21.66 ± 5.26
	Low Level †††	92.08 ± 5.15	57.80 ± 5.01

28 † Values are expressed as mean recovery (%) ± relative standard deviation (RSD, n=3).

29 †† The OTA control was a standard solution in water/PBS, not a coffee extract. The concentration refers
30 to the final OTA level in the test solution.

31 ††† The "High Level" and "Low Level" refer to the respective concentration tiers for each compound as
32 defined in the manuscript (Table 1).

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