

Supplementary Materials: Contamination by Aflatoxins B/G in Food and Commodities Imported in Southern Italy from 2017 to 2020: A Risk-Based Evaluation

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Table S1. The results of validation studies for determination of AF B/G in several food.

Food	Validation Parameter	AF B1	AF B2	AF G1	AF G2
nuts, cereals, dried fruit oilseeds	trueness, mean recoveries at 1,0 µg/kg	101,70%	102,80%	100,30%	98,30%
	trueness, mean recoveries at 5,0 µg/kg	87,70%	97,70%	93,50%	88,90%
	trueness, mean recoveries at 15,0 µg/kg	90,20%	96,00%	92,70%	91,80%
	repeatability at 1,0 µg/kg , RSD _r , n = 6	3,50%	5,70%	6,90%	5,40%
	repeatability at 5,0 µg/kg , RSD _r , n = 6	3,80%	1,40%	1,80%	6,10%
	repeatability at 15,0 µg/kg ,RSD _r , n = 6	4,90%	1,10%	1,70%	3,30%
	within-laboratory reproducibility at 1,0 µg/kg , RSD _R , n = 16	6,80%	5,70%	6,00%	10,80%
	within-laboratory reproducibility at 5,0 µg/kg , RSD _R , n = 16	8,00%	11,60%	6,60%	14,70%
	within-laboratory reproducibility at 10,0 µg/kg , RSD _R , n = 16	6,90%	11,20%	5,80%	10,30%
spices, potherb	trueness, mean recoveries at 2,0 µg/kg	93,50%	87,40%	84,40%	67,90%
	trueness, mean recoveries at 5,0 µg/kg	99,00%	91,80%	90,50%	70,20%
	trueness, mean recoveries at 15,0 µg/kg	98,10%	93,60%	98%	78,30%
	repeatability at 2,0 µg/kg , RSD _r , n = 6	16,00%	13,70%	8,60%	13,30%
	repeatability at 5,0 µg/kg , RSD _r , n = 6	16,10%	15,30%	12,00%	14,00%
	repeatability at 15,0 µg/kg ,RSD _r , n = 6	12,40%	17,80%	9,80%	10,50%
	within-laboratory reproducibility at 2,0 µg/kg , RSD _R , n = 12	12,80%	11,50%	8,20%	10,90%
	within-laboratory reproducibility at 5,0 µg/kg , RSD _R , n = 12	14,30%	14,60%	11,00%	12,50%
bakery products, vegetable extracts	within-laboratory reproducibility at 15,0 µg/kg , RSD _R , n = 12	10,80%	15,10%	8,20%	7,60%
	trueness, mean recoveries at 0,25 µg/kg	113,30%	100,00%	106,70%	67,30%
	trueness, mean recoveries at 2,0 µg/kg	95,80%	90,70%	93,80%	95,00%
	trueness, mean recoveries at 4,0 µg/kg	98,90%	99,10%	96,10%	90,20%
	repeatability at 0,25 µg/kg , RSD _r , n = 6	5,30%	9,10%	5,10%	8,70%
	repeatability at 2,0 µg/kg , RSD _r , n = 6	5,90%	4,00%	9,00%	7,30%
hazelnut meals	repeatability at 4,0 µg/kg ,RSD _r , n = 6	6,10%	9,80%	4,70%	7,80%
	trueness, mean recoveries at 1,0 µg/kg	90,30%	84,80%	97,30%	75,70%
	trueness, mean recoveries at 15,0 µg/kg	91,00%	91,40%	96,90%	83,70%
	repeatability at 1,0 µg/kg , RSD _r , n = 6	3,00%	5,80%	7,70%	6,40%
	repeatability at 15,0 µg/kg ,RSD _r , n = 6	3,70%	2,30%	2,80%	8,20%

within-laboratory reproducibility at 1,0 µg/kg , RSD _R , n = 8		2,90%	7,90%	10,10%	12,60%
within-laboratory reproducibility at 15,0 µg/kg , RSD _R , n = 8		3,30%	5,50%	4,30%	20,60%
cereals, nuts, dried fruit, oilseeds	LOQ, µg/kg	0,25	0,25	0,25	0,25
bakery products, vegetable extracts	LOD, µg/kg	0,25	0,25	0,25	0,25
spices, potherb	LOQ, µg/kg	2,0	2,0	2,0	2,0
	LOD, µg/kg	0,42	0,42	0,42	0,42
hazelnut meals	LOQ, µg/kg	1,0	1,0	1,0	1,0
	LOD, µg/kg	0,25	0,25	0,25	0,25
all food	linearity of detector signal, standard calibration curve R ²	≥ 0,99	≥ 0,99	≥ 0,99	≥ 0,99