

SUPPORTING INFORMATION

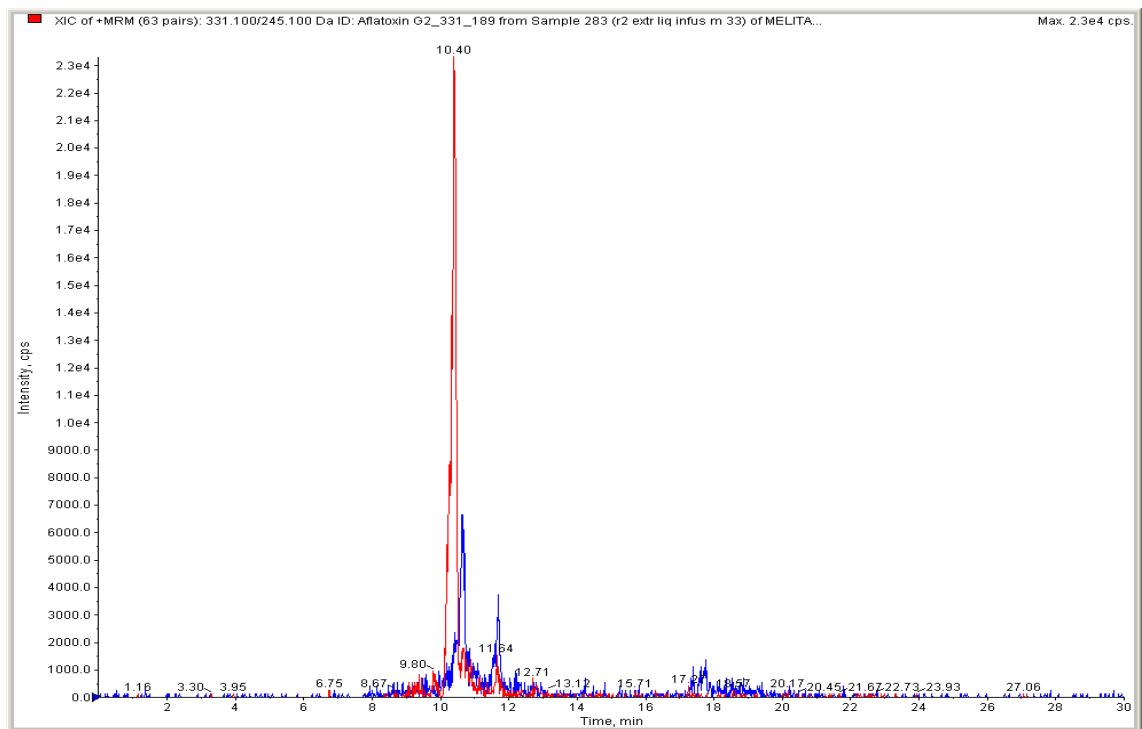
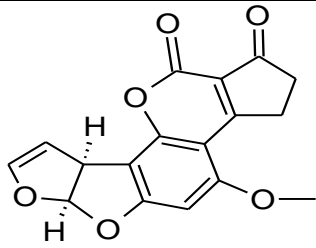
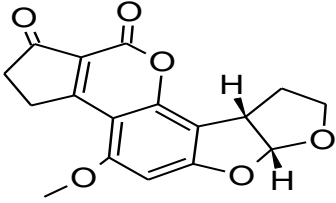
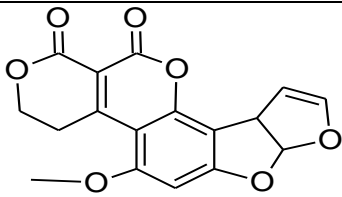
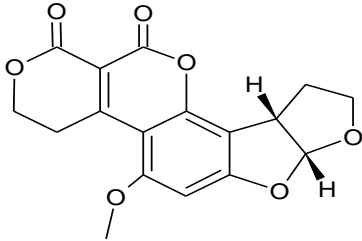
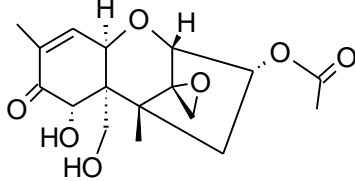
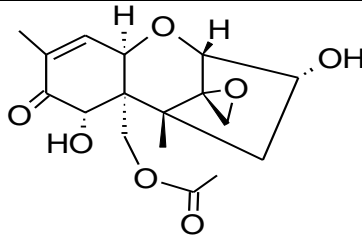
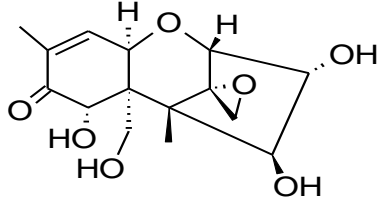
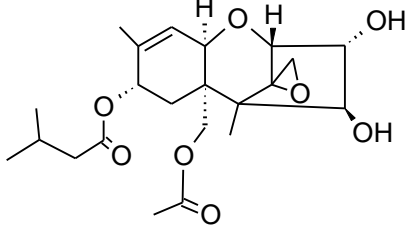
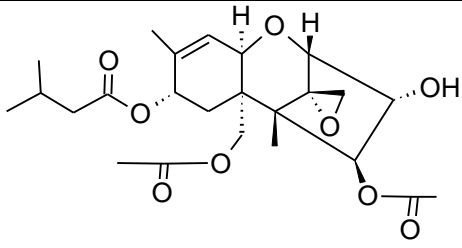
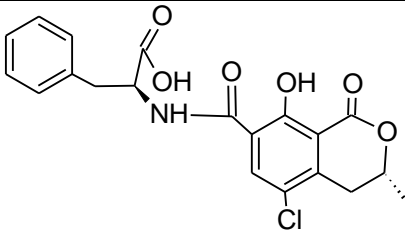
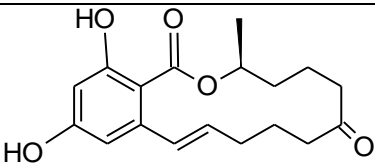
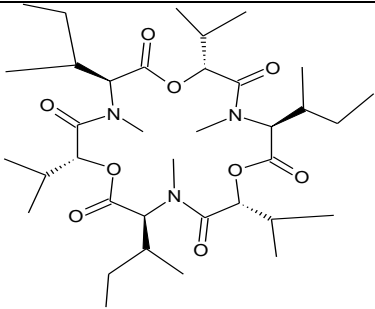
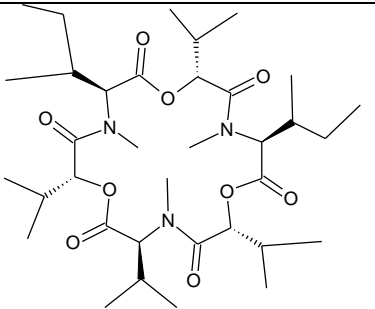
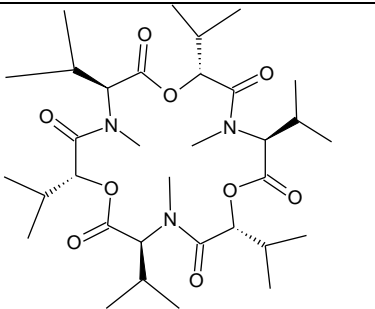
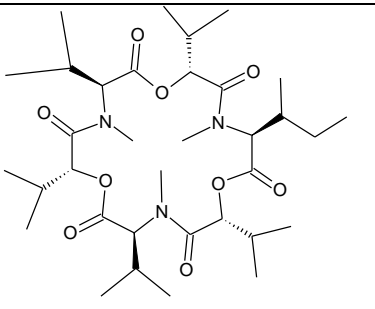


Figure S1. Chromatogram obtained from a sample of Thyme naturally contaminated by AFG2 (**4**) (6.6 $\mu\text{g/L}$) Retention Time= 10.40 min.

Table S1. Structure sheet of Mycotoxins Investigated with the numeral code and Molecular Structure.

numeral code	mycotoxin	molecular structure
1	aflatoxin B1	
2	aflatoxin B2	

3	aflatoxin G1	
4	aflatoxin G2	
5	3-acetyldeoxynivalenol (3aDON)	
6	15-acetyldeoxynivalenol (15aDON)	
7	nivalenol	
8	HT-2	
9	T-2	

10	ochratoxin A (OTA)	
11	zearalenone (ZEA)	
12	enniatin A (ENA)	
13	enniatin A1 (ENA1)	
14	enniatin B (ENB)	
15	enniatin B1 (ENB1)	

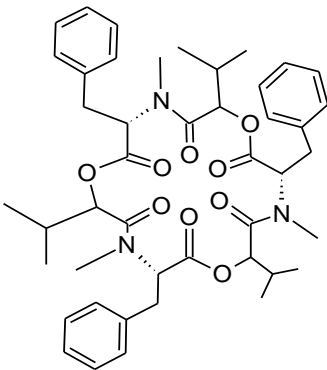
16	beauvericin (BEA)	

Table S2. Risk Assessment of Spanish and British population to Mycotoxins through the Consumption of Herbal Tea Beverages.

	spanish population				
mycotoxin	LB approach ^c				
	mean concentration (µg/L)	daily consumption L/kg bw/day)	estimate daily intakes (ng/kg bw/day)	tolerable daily intakes (ng/kg bw/day)	risk characterization (EDI/TDI)*100
15aDON (6)	2.16	0.00063	1.35	1000 ^a	0.13%
	UB approach ^c				
	mean concentration (µg/L)	daily consumption (L/kg bw/day)	estimate daily intakes (ng/kg bw/day)	tolerable daily intakes (ng/kg bw/day)	risk characterization (EDI/TDI)*100
15aDON (6)	2.26	0.00063	1.42	1000 ^a	0.14%
ENB (14)	0.06	0.00063	0.038	1000 ^a	0.0038%
ENB (14)	0.06	0.00063	0.038	100 ^b	0.038%
	british population				
mycotoxin	LB approach ^c				
	mean concentration (µg/L)	daily consumption L/kg bw/day)	estimate daily intakes (ng/kg bw/day)	tolerable daily intakes (ng/kg bw/day)	risk characterization (EDI/TDI)*100
15aDON (6)	2.16	0.0096	20.7	1000 ^a	2.1%
	UB approach ^c				
	mean concentration (µg/L)	daily consumption (L/kg bw/day)	estimate daily intakes (ng/kg bw/day)	tolerable daily intakes (ng/kg bw/day)	risk characterization (EDI/TDI)*100
15aDON (6)	2.26	0.0096	21.7	1000 ^a	2.2%
ENB (14)	0.06	0.0096	0.6	1000 ^a	0.06%
ENB (14)	0.06	0.0096	0.6	100 ^b	0.6%

^a TDI DON (1 µg/kg bw/day)²⁷.

^b TDI sum of T-2 and HT-2 toxins (0.1 µg/kg bw/day)²⁸.

^c UB: upper bound levels, LB: lower bound levels.

Table S3. Numeral Code and Manufacturing Companies of each Botanical Sample.

numeral code	botanical sample	common name	manufacturing companies (city and country location)	voucher number
A	<i>Matricaria chamomilla</i> L.	chamomile	D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-04-141-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-04-142-17
			R.G.S.E.A.A. nº 25.00381/A (Alicante, Spain)	MUV-04-143-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-04-144-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-04-145-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-04-146-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-04-147-17
			RSI 2500381 for CMI 2 (Les Ulis, France)	MUV-04-148-17
B	<i>Matricaria</i>	chamomile	Pompadour	MUV-04-149-

	<i>chamomilla</i> L.	with honey	Ibérica, S.A. (Alicante, Spain)	17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-04-150-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-04-151-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-04-152-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-04-153-17
C	<i>Matricaria chamomilla</i> L.	chamomile with anise	R.G.S.E.A.A. nº 25.00381/A (Alicante, Spain)	MUV-04-154-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-04-155-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-04-156-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-04-157-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-04-158-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-04-159-17

D	<i>Tilia europaea</i> L.	linden	Martínez y Cantó, S.L. (Novelda, Spain)	MUV-05-7-17
			R.G.S.E.A.A. nº 25.00381/A (Alicante, Spain)	MUV-05-8-17
			R.G.S.E.A.A. nº 25.00381/A (Alicante, Spain)	MUV-05-9-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-10-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-11-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-12-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-13-17
			RSI 2500381 for CMI 2 (Les Ulis, France)	MUV-05-14-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-05-15-17
E	<i>Mentha pulegium</i> L.	Pennyroyal with mint	Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-16-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-17-17
			Pompadour Ibérica, S.A.	MUV-05-18-17

			(Alicante, Spain)	
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-05-19-17
			R.G.S.E.A.A. nº 25.00381/A (Alicante, Spain)	MUV-05-20-17
			R.G.S.E.A.A. nº 25.00381/A (Alicante, Spain)	MUV-05-21-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-05-22-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-05-23-17
			RSI 2500381 for CMI 2 (Les Ulis, France)	MUV-05-24-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-05-25-17
F	<i>Thymus vulgaris</i> L.	thyme	Martínez y Cantó, S.L. (Novelda, Spain)	MUV-06-14-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-06-15-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-06-16-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-06-17-17

			M. David Cano Barrachina (Orihuela, Spain)	MUV-06-18-17
			M. David Cano Barrachina (Orihuela, Spain)	MUV-06-19-17
G	<i>Valeriana officinalis</i> L.	valerian	Martínez y Cantó, S.L. (Novelda, Spain)	MUV-06-20-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-06-21-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-06-22-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-06-23-17
H	<i>Equisetum arvense</i> L.	horsetail	Martínez y Cantó, S.L. (Novelda, Spain)	MUV-06-24-17
			Martínez y Cantó, S.L. (Novelda, Spain)	MUV-06-25-17
			Pompadour Ibérica, S.A. (Alicante, Spain)	MUV-06-26-17
			D.E Master Blenders 1753 (Amsterdam, The Netherlands)	MUV-06-27-17

Table S4. LC-MS/MS parameters.

mycotoxin	DP ^a	precursor ion	quantification ion ^Q			confirmation ion ^q		
			CE ^b	product ion	CXP ^c	CE	product ion	CXP
AFB1(1)	46	313.1	39	284.9	4	41	241.0	4
AFB2 (2)	81	315.1	33	286.9	6	39	259.0	6
AFG1(3)	76	329.0	39	243.1	6	29	311.1	6
AFG2 (4)	61	331.1	27	313.1	6	39	245.1	4
HT2 (8)	21	442.2	19	262.8	4	19	215.4	8
T2 (9)	21	484.3	29	215.1	4	22	185.1	4
3aDON (5)	44	339.2	20	231.1	3	20	203.1	3
15aDON (6)	50	339.2	20	137.0	3	20	261.1	3
NIV (7)	50	313.4	80	115.1	3	27	175.1	3
OTA (10)	55	404.3	97	102.1	6	27	239.0	6
ZEA (11)	26	319.0	15	301.0	10	19	282.9	4
ENA (12)	76	699.4	35	210.1	14	59	228.2	16
ENA1(13)	66	685.4	37	210.2	8	59	214.2	10
ENB (14)	51	657.3	39	196.1	8	59	214.0	10
ENB1 (15)	66	671.2	61	214.1	10	57	228.1	12
BEA (16)	116	801.2	27	784.1	10	39	244.1	6

^a DP: decluster potential (volts)^b CE: collision energy (volts)^c CXP: cell exit potential (volts)

Table S5. Analytical parameters for Method Validation (Recoveries, Intra-Day and Inter-Day Precisions, Matrix Effects and Limits of Detection and Quantification).

mycotoxin	recovery ^c ± RSD ^d (%)		SSE (%) ^b	LOD ^a	LOQ ^a
	intra-day precision	inter-day precision			
AFB1 (1)	114± 7	111± 10	78	0.7	2.3
AFB2 (2)	93± 5	88± 6	102	2.4	8.0
AFG1 (3)	96± 6	91± 8	91	0.7	2.4
AFG2 (4)	68± 9	67± 11	82	0.5	1.6

HT2 (8)	124 ± 5	119 ± 9	87	10	33
T2 (9)	81 ± 8	84 ± 11	81	9	30
3aDON (5)	127 ± 9	121 ± 12	47	8	27
15aDON (6)	125 ± 5	117 ± 9	113	0.1	0.3
NIV (7)	119 ± 11	115 ± 15	119	9.6	32
ZEA (11)	79 ± 7	76 ± 9	60	0.05	0.2
OTA (10)	66 ± 3	65 ± 5	69	5	17
ENA (12)	96 ± 5	93 ± 8	75	0.4	1.4
ENA1 (13)	105 ± 5	104 ± 7	78	0.2	0.7
ENB (14)	97 ± 4	94 ± 5	107	0.05	0.2
ENB1 (15)	113 ± 6	110 ± 9	70	0.1	0.3
BEA (16)	90 ± 8	87 ± 12	96	1	3.2

^a LOD and LOQ are limits of detection and quantification, respectively (µg/L).

^b SSE: Signal Suppression- Enhancer.

^c Recoveries: experimental data from analysis performed at concentrations of 10xLOQ.

^d RSD: Relative standard deviation (calculated injecting samples in triplicate).