

Supplementary Materials: Undertaking a New Regulatory Challenge: Monitoring of Ergot Alkaloids in Italian Food Commodities

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Table S1. Occurrence data for Ergot Alkaloids: individual data for each toxin.

Region Year	Samples	EM	EMI	ES	ESI	ET	ETI	EC	ECI	EK	REK	RIE	CRE	CRIS	Sum
Puglia 2017	Wheat flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Barley grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Corn grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2017	Spelt grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Spelt grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Wheat grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Wheat grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Wheat grain	6.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.2
Marche2017	Wheat grain	9.3	7.9	5.7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	23
Umbria2017	Bakery products	5.5	N.D.	3.8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	9.3
Marche2017	Bread	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2017	Cereal flakes	20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	20
Umbria2017	Crackers	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5.6	N.D.	N.D.	N.D.	N.D.	5.6
Marche2017	Pasta	5.8	N.D.	N.D.	N.D.	6.1	N.D.	N.D.	N.D.	3.6	2.6	7.9	3.8	29.8	
Umbria2017	Pasta	N.D.	N.D.	4.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4.1
Umbria2018	Wheat bran	9.9	3.1	9.0	5.4	18	9.7	14	12	28	19	94	48	271	
Marche2018	Wheat flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2018	Wheat flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Puglia 2018	Wheat flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.7	N.D.	2.7
Umbria2018	Barley grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2018	Corn grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2018	Oats grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2018	Spelt grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2018	Spelt grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2018	Spelt grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2018	Wheat grain	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Puglia 2018	Wheat grain	25	N.D.	24	6.2	N.D.	N.D.	11	N.D.	7.8	N.D.	N.D.	3.1	77	
Umbria2018	Biscuits	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2018	Bread	N.D.	N.D.	N.D.	N.D.	3.9	N.D.	N.D.	N.D.	N.D.	N.D.	2.6	N.D.	6.5	
Umbria2018	Cereal flakes	7.6	N.D.	N.D.	N.D.	N.D.	N.D.	7.6	N.D.	N.D.	N.D.	N.D.	N.D.	15	
Umbria2018	Cereal flakes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2018	Cereal flakes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2019	Spelled flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Umbria2019	Spelled flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2019	Wheat flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Marche2019	Wheat flour	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.4	N.D.	3.4

Umbria2019	Wheat flour	N.D.N.D. 2.9 N.D. 3.0 N.D.N.D.N.D.N.D.N.D. 6.0 N.D. 12
Marche2019	Wheat flour	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. 11 4.1 15
Umbria2019	Wheat flour	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Wheat flour	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Wheat flour	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Wheat flour	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Oats grain	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2019	Wheat grain	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Biscuits for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2019	Biscuits for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Cereal-based food for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Pasta for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Pasta for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Pasta	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Bakery products	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2019	Bakery products	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2019	Biscuits	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2019	Biscuits	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2019	Cereal flakes	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2020	Wheat flour	2.5 N.D.N.D.N.D. 2.5 2.5 N.D.N.D. 2.5 2.5 2.5 2.5 18
Umbria2020	Wheat flour	N.D. 2.5 2.5 2.5 N.D.N.D. 2.5 2.5 N.D. N.D. N.D. N.D. 13
Umbria2020	Cereal-based food for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2020	Cereal-based food for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2020	Cereal-based food for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2020	Pasta for infants	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Puglia 2020	Multicereal flakes	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2020	Multicereal flakes	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Marche2020	Multicereal flakes	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2020	Multicereal flakes	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2020	Multigrain bread	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.
Umbria2020	Rusks	N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D.N.D. N.D. N.D. N.D. N.D.

ergometrine (EM), ergometrinine (EMI), ergosine (ES), ergosinine (ESI), ergotamine (ET), ergotaminine (ETI), ergocornine (EC), ergocorninine (ECI), mixture of α - and β -isomers of ergocryptine (EKR) and ergocryptinine (EKRI), ergocristine (ECR) and ergocristinine (ECRI) .