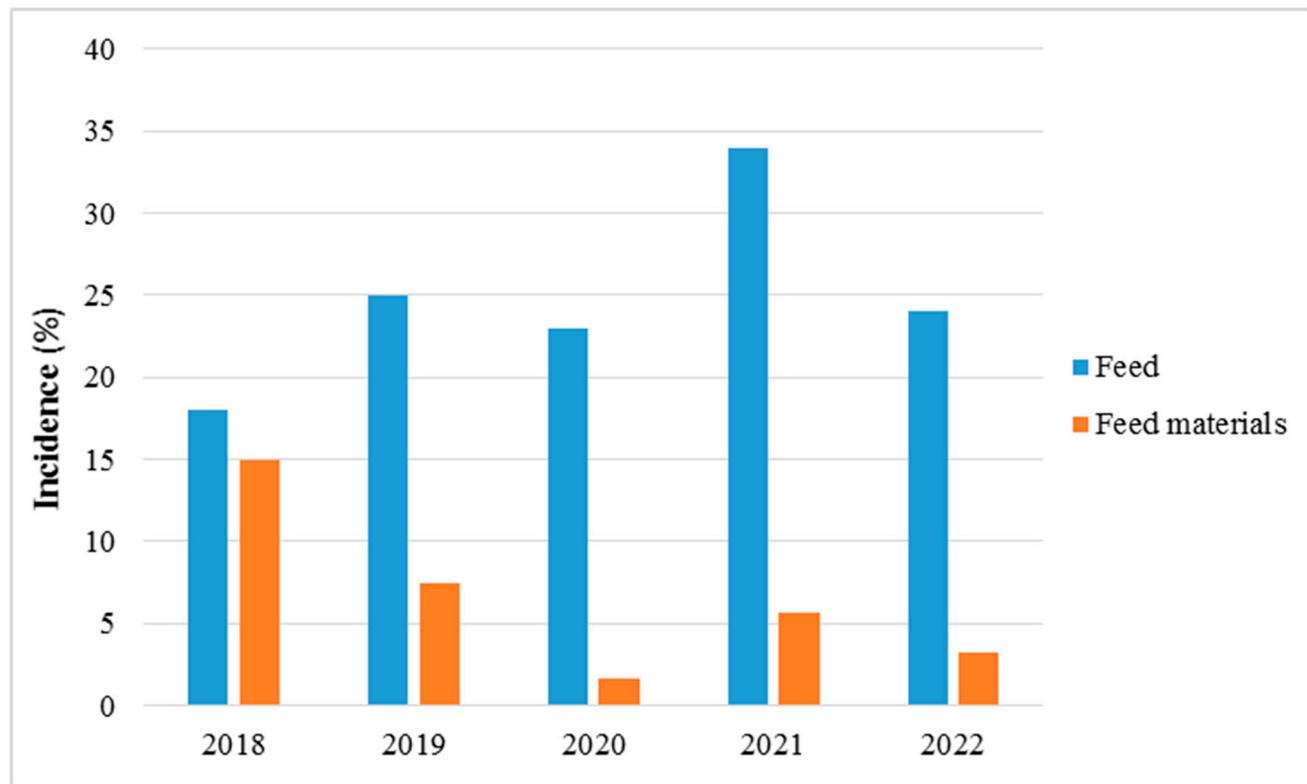


## Supplementary material

**Figure S1.** Overall incidence of feed and feed materials from 2018 to 2022.



**Table S1.** LC gradient and FLD parameters

Time	MeOH (%)	ACN (%)	AcOH (%)	Flow (mL/min)
0.00	30	0	70	0.6
3.50	30	0	70	
3.60	1	29	70	
5.00	1	29	70	
6.00	1	29	70	1.0
9.60	1	29	70	
11.00	1	29	70	
11.10	30	0	70	
13.60	30	0	70	0.6
15.50	30	0	70	
Fluorescence detector parameters				
	$\lambda_{exc}$ (nm)	$\lambda_{em}$ (nm)	Gain	Sensitivity
AFB <sub>1</sub>	364	434	x16	High
ZEN	270	470	x4	High
OTA	334	460	x16	Medium

**Table S2.** Linearity of Aflatoxin B<sub>1</sub>, Zearalenone and Ochratoxin A determined with back-calculated concentration (BCC)

<b>Aflatoxin B1</b>			
<b>µg/mL</b>	<b>Area</b>	<b>BCC (µg/mL)</b>	<b>Δ%</b>
0	0		
0.001	967770	0.0010	<b>0.8</b>
0.0026	2385680	0.0026	<b>-1.5</b>
0.0051	4742022	0.0051	<b>0.7</b>
0.0102	9458215	0.0103	<b>1.0</b>
0.0204	18640660	0.0203	<b>-0.3</b>
<b>Slope</b>	913911860		
<b>Intercept</b>	46268		

<b>Zearalenone</b>			
<b>µg/mL</b>	<b>Area</b>	<b>BCC (µg/mL)</b>	<b>Δ%</b>
0	0		
0.0284	805717	0.0278	<b>-2.2</b>
0.1136	3164323	0.1152	<b>1.4</b>
0.2841	7752185	0.2853	<b>0.4</b>
0.5682	15397862	0.5688	<b>0.1</b>
1.1363	30681720	1.1355	<b>-0.1</b>
<b>Slope</b>	26969894		
<b>Intercept</b>	56625		

<b>Ochratoxin A</b>			
<b>µg/mL</b>	<b>Area</b>	<b>BCC (µg/mL)</b>	<b>Δ%</b>
0.0000	0		
0.0129	777581	0.0127	<b>-1.9</b>
0.0322	1920707	0.0323	<b>0.2</b>
0.0643	3810293	0.0647	<b>0.6</b>
0.1286	7606621	0.1298	<b>1.0</b>
0.2573	14983463	0.2564	<b>-0.3</b>
0.5145	30027207	0.5146	<b>0.0</b>
<b>Slope</b>	58275874		
<b>Intercept</b>	39842		

**Table S3.** LODs and LOQs for Aflatoxin B<sub>1</sub>, Zearalenone and Ochratoxin A

Analyte	Theoretical LOD (mg/Kg)	Theoretical LOQ (mg/Kg)	Practical LOQ in feed (mg/Kg)	Practical LOQ in feed materials (mg/Kg)
Aflatoxin B <sub>1</sub>	0.0005	0.0015	0.0020	0.0080
Zearalenone	0.017	0.051	0.050	0.200
Ochratoxin A	0.010	0.031	0.025	0.100
Ochratoxin A (dog feed)	0.0014	0.0043	0.0040	-

**Table S4.** Proficiency tests

Proficiency test	Matrix	Analyte	Assigned value (mg/kg)	Submitted value (mg/kg)	z-score
Progetto Trieste – F1962 (October 2019)	Feed	AFB <sub>1</sub>	0.01207	0.01605	1.18
FAPAS 04430 (December 2021)	Feed	AFB <sub>1</sub>	0.0191	0.0223	0.8
		ZEN	0.0126	0.0110	-0.6
		OTA	0.0745	0.0820	0.5
FAPAS 04447 (July 2022)	Feed	AFB <sub>1</sub>	0.0109	0.0068	-1.7
		ZEN	0.116	0.081	-1.4
		OTA	0.0100	0.0102	0.1